

# Railway Recruitment Board

## Notations :

- Options shown in green color and with ✓ icon are correct.
- Options shown in red color and with ✗ icon are incorrect.

<b>Question Paper Name:</b>	Junior Engineer 28th Aug Shift 1 Actual
<b>Subject Name:</b>	Junior Engineer
<b>Creation Date:</b>	2015-08-18 12:44:53.0
<b>Cut Off:</b>	0
<b>Duration:</b>	120
<b>Number of Questions:</b>	150
<b>Total Marks:</b>	150.0

## Junior Engineer

Group Number :	1
Group Id :	7
Group Maximum Duration :	0
Group Minimum Duration :	120
Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Group Marks:	150.0

## Junior Engineer

Section Id :	7
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	150
Number of Questions to be attempted:	150
Section Marks:	150.0

Sub-Section Number:	1
Sub-Section Id:	7
Question Shuffling Allowed :	Yes

**Question Number : 1 Question Id : 1201 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33**

Which one of following expression is true for Tds equation

1.  $du - PdV$
2.  $du + PdV$
3.  $du - VdP$
4.  $du + VdP$

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 2 Question Id : 1202 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

PMM1 is closely related with

1. First law of thermodynamics
2. Second law of thermodynamics
3. Third law of thermodynamics
4. Zeroth law of thermodynamics

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 3 Question Id : 1203 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Octane number of iso-octane is

1. 0
2. 30
3. 60
4. 100

Options :

1. ✘ 1
2. ✘ 2

3. ✘ 3

4. ✔ 4

Question Number : 4 Question Id : 1204 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Petrol is used in which cycle

1. Otto cycle
2. Diesel cycle
3. Rankine cycle
4. Carnot cycle

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 5 Question Id : 1205 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Isolated system indicates

1. Mass of substance cross the boundary
2. Energy of substance cross the boundary
3. Both mass and energy of substance cross the boundary
4. Both mass and energy of substance does not cross the boundary

Options :

1. ✘ 1

2. ✘ 2

3. ✘ 3

4. ✔ 4

Question Number : 6 Question Id : 1206 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Heat transfer by molecular collision in

1. Conduction
2. Convection
3. Radiation
4. Scattering

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 7 Question Id : 1207 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following have a highest thermal conductivity

1. Boiling water
2. Steam
3. Solid ice
4. Rain water

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 8 Question Id : 1208 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Oxy-acetylene welding is categorised in

1. Arc welding
2. Gas welding
3. Chemical welding
4. Resistance welding

Options :

1. ✘ 1

2. ✓ 2

3. ✗ 3

4. ✗ 4

Question Number : 9 Question Id : 1209 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Acetylene gas is stored in cylinders in

1. Solid form

2. Gaseous form

3. Liquid form

4. Mixture of solid and liquid form

Options :

1. ✗ 1

2. ✗ 2

3. ✓ 3

4. ✗ 4

Question Number : 10 Question Id : 1210 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The temperature at which the new grains are formed in the metal is called

1. Lower critical temperature

2. Upper critical temperature

3. Eutectic temperature

4. Recrystallisation temperature

Options :

1. ✗ 1

2. ✗ 2

3. ✗ 3

4. ✓ 4

Question Number : 11 Question Id : 1211 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The process of improving the cutting action of the grinding wheel is called

1. Truing
2. Dressing
3. Facing
4. Clearing

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 12 Question Id : 1212 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angle on which the strength of the tool depends is

1. Rake angle
2. Cutting angle
3. Clearance angle
4. Lip angle

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 13 Question Id : 1213 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Feed rate in milling operation is expressed as

1. mm/tooth
2. mm/rev of milling cutter
3. meters/min
4. mm

Options :

1. ✔ 1
2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 14 Question Id : 1214 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The casting defects which is not caused by the high pouring temperature of melts is

1. Cuts
2. Metals penetration
3. Fusion
4. Rat tails

Options :

1. ✘ 1

2. ✔ 2

3. ✘ 3

4. ✘ 4

Question Number : 15 Question Id : 1215 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is not a part of Squirrel cage 3 - phase induction motor

1. Rotor
2. Stator
3. Carbon Brushes
4. Shaft

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 16 Question Id : 1216 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Number of poles of a 3-phase induction motor when speed of motor is 600 rpm and supply frequency is 50 Hz.

1. 10
2. 5
3. 20
4. 8

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 17 Question Id : 1217 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Air preheater is a part of

1. Thermal power plant
2. Wind power plant
3. Nuclear power plant
4. Hydel power plant

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 18 Question Id : 1218 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Steel pipes are manufactured by

1. Argon arc welding
2. Thermit welding
3. Resistance welding
4. Arc welding

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 19 Question Id : 1219 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33



Hopkinson's test on DC machines is conducted at

1. No load
2. Full load
3. Part load
4. Fluctuating load

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 20 Question Id : 1220 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Heat generated across a resistance is

1. directly proportional to current flowing through it
2. inversely proportional to the value of resistance
3. directly proportional to the square of current flowing through it
4. directly proportional to square of resistance

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 21 Question Id : 1221 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is not a type of Transformer on the basis of cooling system

1. Naturally cooled
2. Water cooled
3. Forced air cooled
4. Ammonia cooled

Options :

1. ✘ 1
2. ✘ 2

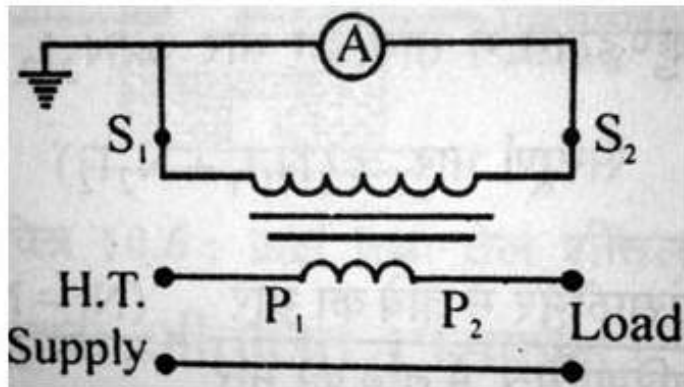
3. ✘ 3

4. ✔ 4

Question Number : 22 Question Id : 1222 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The following is a circuit representation of



1. Auto transformer
2. Current transformer
3. Distribution transformer
4. Potential transformer

Options :

1. ✘ 1

2. ✔ 2

3. ✘ 3

4. ✘ 4

Question Number : 23 Question Id : 1223 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Capacitor start capacitor run motor is basically a

1. DC shunt motor
2. Single Phase motor
3. Two Phase motor
4. Three Phase motor

Options :

1. ✘ 1

2. ✔ 2

3. ✘ 3

4. ✘ 4

Question Number : 24 Question Id : 1224 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A fuse works on the ..... effect of current

1. magnetic
2. static electricity
3. heating
4. chemical

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 25 Question Id : 1225 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a mercury arc rectifier positive ions are attracted towards

1. mercury pool
2. shell bottom
3. cathode
4. anode

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 26 Question Id : 1226 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Boolean algebra obeys

1. commutative law only
2. distributive law only
3. associative law only
4. associative, distributive and commutative law

Options :

1. ✘ 1

2. ✘ 2

3. ✘ 3

4. ✔ 4

Question Number : 27 Question Id : 1227 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The hexadecimal number 64 AC is equivalent to decimal number

1. 25727

2. 25722

3. 25772

4. 25277

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 28 Question Id : 1228 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

When transistors are used in digital circuits they usually operate in the

1. active region

2. break down region

3. saturated region

4. saturation and cut off region

Options :

1. ✘ 1

2. ✘ 2

3. ✘ 3

4. ✔ 4

Question Number : 29 Question Id : 1229 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Most of the electrons in the base of an NPN transistor flow

1. out of the base lead
2. into the collector
3. into the base
4. into the base supply

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 30 Question Id : 1230 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

RF amplification is used to amplify the waves

1. before detection
2. after detection
3. after modulation
4. after AF amplification

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 31 Question Id : 1231 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A Karnaugh map with 4 variables has

1. 2 cells
2. 4 cells
3. 8 cells
4. 16 cells

Options :

1. ✘ 1
2. ✘ 2

3. ✘ 3

4. ✔ 4

Question Number : 32 Question Id : 1232 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A transistor has a current gain of 0.99 in the CB mode. Its current gain in the CC mode is

1. 100

2. 99

3. 0.99

4. 1.01

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 33 Question Id : 1233 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The number of doped regions in P-N diode is

1. 1

2. 2

3. 3

4. 4

Options :

1. ✘ 1

2. ✔ 2

3. ✘ 3

4. ✘ 4

Question Number : 34 Question Id : 1234 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The types of carriers in a semiconductor are

1. 1
2. 2
3. 3
4. may be 1 or 2 depending on material

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 35 Question Id : 1235 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In the case of pure bending, the beam will bend into an arc of a

1. Circle
2. Parabola
3. Ellipse
4. Hyperbola

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 36 Question Id : 1236 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Consistency as applied to cohesive soils is an indicator of its

1. Density
2. Moisture content
3. Shear strength
4. Porosity

Options :

1. ✘ 1
2. ✘ 2



3. ✓ 3

4. ✗ 4

Question Number : 37 Question Id : 1237 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following is not a compression member?

1. Strut

2. Tie

3. Rafter

4. Boom

Options :

1. ✗ 1

2. ✓ 2

3. ✗ 3

4. ✗ 4

Question Number : 38 Question Id : 1238 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Milk mixes with water due to

1. Very good cohesion

2. Very good adhesion

3. Very good surface tension

4. Very good vapour pressure

Options :

1. ✗ 1

2. ✓ 2

3. ✗ 3

4. ✗ 4

Question Number : 39 Question Id : 1239 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The probability distribution taken to represent the completion time in PERT analysis is

1. Gamma distribution

2. Normal distribution

3. Beta distribution

4. Log normal distribution

Options :

1. ✗ 1



2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 40 Question Id : 1240 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The strength of timber is maximum when load applied is

1. Parallel to grain

2. Perpendicular to grain

3. Inclined at  $45^\circ$  to grain

4. Inclined at  $60^\circ$  to grain

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 41 Question Id : 1241 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An ideal fluid

1. obey's Newton's law of viscosity

2. is both incompressible and non-viscous

3. is non viscous

4. Frictionless and compressible

Options :

1. ✘ 1

2. ✔ 2

3. ✘ 3

4. ✘ 4

Question Number : 42 Question Id : 1242 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The two point problem and three point problem are methods of

1. Resection
2. Orientation
3. Traversing
4. Resection and orientation

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 43 Question Id : 1243 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Subtense bar is an instrument used for

1. Levelling
2. Measurement of horizontal distances in plane areas
3. Measurement of horizontal distances in undulated areas
4. Measurement of angles

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 44 Question Id : 1244 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A soil having particles of nearly the same size is known as

1. Well graded
2. Uniformly graded
3. Poorly graded
4. Gap graded

Options :

1. ✘ 1
2. ✔ 2

3. ✘ 3

4. ✘ 4

Question Number : 45 Question Id : 1245 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Addition of pozzolana to ordinary portland cement increase

1. Bleeding

2. Shrinkage

3. Permeability

4. Heat of hydration

Options :

1. ✘ 1

2. ✔ 2

3. ✘ 3

4. ✘ 4

Question Number : 46 Question Id : 1246 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Critical path

1. is always longest

2. is always shortest

3. May be longest

4. May be shortest

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 47 Question Id : 1247 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The scale of a rectifier instrument is

- (a) linear
- (b) non-linear
- (c) either linear or non linear
- (d) neither linear or non linear

Options :

- 1. ✓ (a)
- 2. ✗ (b)
- 3. ✗ (c)
- 4. ✗ (d)

Question Number : 48 Question Id : 1248 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

For measuring current at high frequency we should use

- (a) moving iron instrument
- (b) electrostatic instrument
- (c) thermocouple instrument
- (d) PMMC instruments

Options :

- 1. ✗ (a)
- 2. ✗ (b)
- 3. ✓ (c)
- 4. ✗ (d)

Question Number : 49 Question Id : 1249 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The resistance in the circuit of the moving coil of a dynamometer wattmeter should be

- (a) almost zero
- (b) low
- (c) high
- (d) very low

Options :

- 1. ✗ (a)
- 2. ✗ (b)
- 3. ✓ (c)

4. ✘ (d)

Question Number : 50 Question Id : 1250 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A dynamometer wattmeter can be used for

- (a) both D.C. and A.C if scales are calibrated
- (b) D.C. only
- (c) A.C. only
- (d) both AC and DC without any calibration of scale

Options :

1. ✔ (a)

2. ✘ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 51 Question Id : 1251 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a low power factor wattmeter the compensating coil is connected

- (a) in series with current coil
- (b) in parallel with current coil
- (c) in series with pressure coil
- (d) in parallel with pressure coil

Options :

1. ✘ (a)

2. ✘ (b)

3. ✔ (c)

4. ✘ (d)

Question Number : 52 Question Id : 1252 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average water consumption for government offices ranges from

- (a) 45 – 90 litres per capita per day
- (b) 30 – 60 litres per capita per day
- (c) 75 – 100 litres per capita per day
- (d) 25 – 50 litres per capita per day

Options :

1. ✔ (a)

2. ✘ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 53 Question Id : 1253 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In water treatment, the manual screens are kept inclined at an angle of

- (a)  $30 - 50^\circ$  with the horizontal
- (b)  $45 - 60^\circ$  with the horizontal
- (c)  $50 - 70^\circ$  with the horizontal
- (d)  $45 - 80^\circ$  with the horizontal

Options :

1. ✘ (a)

2. ✔ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 54 Question Id : 1254 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The water distribution networks are normally designed for a period of

- (a) 40 years
- (b) 30 years
- (c) 25 years
- (d) 50 years

Options :

1. ✘ (a)

2. ✔ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 55 Question Id : 1255 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is used for the removal of particulates as well as gaseous pollutants

- (a) catalytic converters
- (b) wet scrubbers
- (c) electrostatic precipitators
- (d) fluidized bed adsorbers

Options :

1. ✘ (a)

2. ✔ (b)



3. ✘ (c)

4. ✘ (d)

Question Number : 56 Question Id : 1256 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The summation of 50 dBA noise level with another 50 dBA noise level is equal to

(a) 100 dBA

(b) 50 dBA

(c) 53 dBA

(d) 56 dBA

Options :

1. ✘ (a)

2. ✘ (b)

3. ✔ (c)

4. ✘ (d)

Question Number : 57 Question Id : 1257 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is correct in respect of ozone layer:

(a) ozone layer is being highest at equator and lowest at poles

(b) ozone layer is being highest at poles and lowest at equator

(c) ozone layer is being uniform thickness throughout the layer

(d) ozone layer is being uniform at equator but non uniform at poles

Options :

1. ✔ (a)

2. ✘ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 58 Question Id : 1258 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Monitor (VDU) is a(an) \_\_\_\_\_

(A) Output device

(B) Input device

(C) Storage device

(D) Both input and output device

Options :

1. ✔ (A)

2. ✘ (B)

3. ✘ (C)

4. ✘ (D)

Question Number : 59 Question Id : 1259 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following memories is directly accessible by the CPU?

(A) RAM

(B) Hard Disk

(C) Magnetic Tape

(D) DVD

Options :

1. ✔ (A)

2. ✘ (B)

3. ✘ (C)

4. ✘ (D)

Question Number : 60 Question Id : 1260 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Static RAM (SRAM) is faster than Dynamic RAM (DRAM) because \_\_\_\_\_

(A) SRAM uses capacitors

(B) SRAM is costlier

(C) SRAM does not require refreshing

(D) SRAM is cheaper

Options :

1. ✘ (A)

2. ✘ (B)

3. ✔ (C)

4. ✘ (D)

Question Number : 61 Question Id : 1261 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

UTF-8 is a(an) \_\_\_\_\_

(A) 8-bit fixed-width encoding

(B) 8-bit variable-width encoding

(C) 16-bit variable-width encoding

(D) 16-bit fixed-width encoding

Options :

1. ✘ (A)

2. ✔ (B)

3. ✘ (C)

4. ✘ (D)

Question Number : 62 Question Id : 1262 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33



The hexadecimal representation of 225.5 is \_\_\_\_\_

(A)  $(E1.08)_{16}$

(B)  $(E1.80)_{16}$

(C)  $(1E.80)_{16}$

(D)  $(1E.08)_{16}$

Options :

1. ✘ (A)

2. ✔ (B)

3. ✘ (C)

4. ✘ (D)

Question Number : 63 Question Id : 1263 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Considering X and Y as binary variables, the Boolean expression  $X + XY'$  is equivalent to

(A) X

(B) 1

(C) 0

(D) Y

Options :

1. ✔ (A)

2. ✘ (B)

3. ✘ (C)

4. ✘ (D)

Question Number : 64 Question Id : 1264 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The 2's complement of the binary number  $(01010101)_2$  is

(A)  $(10000000)_2$

(B)  $(11111111)_2$

(C)  $(01010110)_2$

(D)  $(10101011)_2$

Options :

1. ✘ (A)

2. ✘ (B)

3. ✘ (C)

4. ✔ (D)

Question Number : 65 Question Id : 1265 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Compiler is used to convert

(A) High-level language programs into machine codes

(B) Low-level language programs into machine codes

(C) Assembly language programs into machine codes

(D) High-level language programs into assembly codes

Options :

1. ✔ (A)

2. ✘ (B)

3. ✘ (C)

4. ✘ (D)

Question Number : 66 Question Id : 1266 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

66. In class 'A' IP addresses, number of network ID bits used to identify the class is \_\_\_\_\_

(A) 0

(B) 1

(C) 2

(D) 3

Options :

1. ✘ (A)

2. ✔ (B)

3. ✘ (C)

4. ✘ (D)

Question Number : 67 Question Id : 1267 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following categories of networks has smallest geographic area?

(A) MAN

(B) PAN

(C) LAN

(D) WAN

Options :

1. ✘ (A)

2. ✔ (B)

3. ✘ (C)

4. ✘ (D)

Question Number : 68 Question Id : 1268 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The distance between two stations is 20 kilometres. If the R.F. of the scale is  $1/400000$ .

Then the distance between the two stations on the map will be

(a) 50 cm

(b) 5 cm

(c) 5 mm

(d) 1 cm

Options :

1. ✘ (a)

2. ✔ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 69 Question Id : 1269 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If a line is perpendicular to V.P. and parallel to H.P., its front view will be

- (a) a point (b) a line of smaller dimension  
(c) a line of larger dimension (d) a line of same dimension

Options :

1. ✓ (a)  
2. ✗ (b)  
3. ✗ (c)  
4. ✗ (d)

Question Number : 70 Question Id : 1270 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A circular plane with a 60mm diameter is resting on a point of its circumference on the V.P.. The surface of the plane is inclined at  $45^{\circ}$  to the V.P. and perpendicular to H.P.. Its front view will be

- (a) a straight line (b) an ellipse  
(c) a circle (d) a rectangle

Options :

1. ✗ (a)  
2. ✓ (b)  
3. ✗ (c)  
4. ✗ (d)

Question Number : 71 Question Id : 1271 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angle that isometric lines make with each other is

- (a)  $90^{\circ}$  (b)  $60^{\circ}$  (c)  $120^{\circ}$  (d)  $45^{\circ}$

Options :

1. ✗ (a)  
2. ✗ (b)  
3. ✓ (c)  
4. ✗ (d)

Question Number : 72 Question Id : 1272 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The eccentricity of a parabola is

- (a) =1 (b)  $<1$  (c)  $>1$  (d) =0

Options :

1. ✓ (a)

2. ✘ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 73 Question Id : 1273 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A force of 20 N accelerates a body from rest to a velocity of 3 m/s in 10 s. The magnitude of change in momentum of the body in one second is

- (a) 2 kg m/s
- (b) 20 kg m/s
- (c) 60 kg m/s
- (d) 6 kg m/s

Options :

1. ✘ (a)

2. ✔ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 74 Question Id : 1274 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The mass of an object is 24 kg on the surface of Earth. It's mass on the surface of Moon will be

- (a) 24 kg
- (b) 4 kg
- (c) 2.4 kg
- (d) 0.24 kg

Options :

1. ✔ (a)

2. ✘ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 75 Question Id : 1275 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A 5 kg box is raised through a height. Its potential energy increases by 49 J. The height is  
(  $g = 9.8 \text{ m/s}^2$  )

- (a) 9.8 m
- (b) 5.0 m
- (c) 1.0 m
- (d) 0.5 m

Options :

1. ✘ (a)
2. ✘ (b)
3. ✔ (c)
4. ✘ (d)

Question Number : 76 Question Id : 1276 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Smita uses a tuning fork of frequency 512 Hz to produce sound in the science laboratory of her school. The velocity of sound in the laboratory is 344 m/s. The distance between two consecutive crests of the sound waves produced is

- (a) 1.34 m
- (b) 0.67 m
- (c) 6.7 m
- (d) 1.49 m

Options :

1. ✘ (a)
2. ✔ (b)
3. ✘ (c)
4. ✘ (d)

Question Number : 77 Question Id : 1277 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A concave lens forms an image of a real object. This image is necessarily

- (a) enlarged, erect and real
- (b) enlarged, erect and virtual
- (c) diminished, inverted and virtual
- (d) diminished, erect and virtual.

Options :

1. ✘ (a)
2. ✘ (b)
3. ✘ (c)
4. ✔ (d)

Question Number : 78 Question Id : 1278 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A wire has a radius of 0.50 mm and carries a current of 0.5 A. The resistivity of the material of wire is  $1.1 \times 10^{-6}$  ohm-m. The potential difference per unit length along the wire is

- (a) 0.70 V/m
- (b) 1.4 V/m
- (c) 2.2 V/m
- (d) 0.90 V/m.

Options :

- 1. ✓ (a)
- 2. ✗ (b)
- 3. ✗ (c)
- 4. ✗ (d)

Question Number : 79 Question Id : 1279 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A substance "A" reacts with another substance "B" to yield a substance "C" and a gas "D". The gas "D" which when passed through lime water turns it milky. The substances "A" and "B" are

- a) A) = HCl & B) = Na<sub>2</sub>CO<sub>3</sub>
- b) A) = NaHCO<sub>3</sub> & B) = H<sub>2</sub>O
- c) A) = Na<sub>2</sub>CO<sub>3</sub> & B) = H<sub>2</sub>O
- d) A) = CH<sub>3</sub>COOH & B) = NaOH

Options :

- 1. ✓ a)
- 2. ✗ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 80 Question Id : 1280 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following represents a double displacement reaction?

- a)  $Zn + 2HCl \rightarrow ZnCl_2 + H_2$
- b)  $Cu + AgNO_3 \rightarrow Cu(NO_3)_2 + 2Ag$
- c)  $K_2SO_4 + BaCl_2 \rightarrow BaSO_4 + 2KCl$
- d)  $CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$

Options :

- 1. ✗ a)
- 2. ✗ b)
- 3. ✓ c)
- 4. ✗ d)

Question Number : 81 Question Id : 1281 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33





4. ✓ d)

Question Number : 85 Question Id : 1285 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

What is the term given to a sudden change in the structure of a gene?

- a) Recombination
- b) Mutation
- c) Variation
- d) Evolution

Options :

- 1. ✗ a)
- 2. ✓ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 86 Question Id : 1286 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

When fumes of Sulphur-dioxide and Nitrous Oxide dissolve in water present in the clouds, they form acids which cause

- a) Eutrophication
- b) Acid rain
- c) Air pollution
- d) Climate change

Options :

- 1. ✗ a)
- 2. ✓ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 87 Question Id : 1287 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which teeth do we use when we cut and tear food?

- a) Incisors and Molars
- b) Molars and Premolars
- c) Premolars and Canines
- d) Incisors and Canines

Options :

- 1. ✗ a)



2. ✘ b)
3. ✘ c)
4. ✔ d)

Question Number : 88 Question Id : 1288 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

After Pollination and Fertilization, which part of the carpel or pistil becomes the fruit?

- a) Entire carpel
- b) Stigma
- c) Style
- d) Ovary

Options :

1. ✘ a)
2. ✘ b)
3. ✘ c)
4. ✔ d)

Question Number : 89 Question Id : 1289 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

To which kingdom of life do all bacteria belong?

- a) Monera
- b) Fungi
- c) Plantae
- d) Animalia

Options :

1. ✔ a)
2. ✘ b)
3. ✘ c)
4. ✘ d)

Question Number : 90 Question Id : 1290 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which one of the following does not carry oxygenated blood?

- a) Pulmonary Vein
- b) Pulmonary Artery
- c) Aorta
- d) Renal Artery

Options :

1. ✘ a)
2. ✔ b)
3. ✘ c)
4. ✘ d)

Question Number : 91 Question Id : 1291 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The HCF and LCM of 9 and 17 are

- a. 0,153
- b. 1,153
- c. 1,9
- d. 1,17

Options :

1. ✘ a.
2. ✔ b.
3. ✘ c.
4. ✘ d.

Question Number : 92 Question Id : 1292 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The least number which when divided by 15 and 20 leaving remainder 9 in each case is

- a. 60
- b. 65
- c. 69
- d. 309

Options :

1. ✘ a.
2. ✘ b.
3. ✔ c.
4. ✘ d.

Question Number : 93 Question Id : 1293 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

If  $a : b = 4 : 5$  and  $a + b = 63$ , then  $a$  is equal to

- a. 28
- b. 35
- c. 49
- d. 54

Options :

1. ✔ a.
2. ✘ b.
3. ✘ c.
4. ✘ d.

Question Number : 94 Question Id : 1294 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 3,x,2x,50 are in proportion then x is equal to

- a. 5
- b. 75
- c.  $5\sqrt{3}$
- d.  $10\sqrt{3}$

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✔ c.
- 4. ✘ d.

Question Number : 95 Question Id : 1295 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 20% of a number is 30, then number is

- a. 120
- b. 130
- c. 140
- d. 150

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✔ d.

Question Number : 96 Question Id : 1296 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If ₹ 500 amounts to Rs.700 in 8 years, then rate of simple interest is

- a. 5%
- b. 6%
- c. 8%
- d. 10%

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 97 Question Id : 1297 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The compound interest on ₹ 10,000 for 1 year at the rate of 8% per annum compounded half yearly is

- a. ₹ 800
- b. ₹ 816
- c. ₹ 856
- d. ₹ 958

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 98 Question Id : 1298 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The C.P of an article is ₹ 210. If loss is 10%, then SP of article is

- a. ₹ 240
- b. ₹ 220
- c. ₹ 231
- d. ₹ 189

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

For the above question, User had specified 'ignore' during keys upload.

Question Number : 99 Question Id : 1299 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The selling price of an article is ₹ 900. If it is sold at a loss of 10%, then cost price is

- a. ₹ 990
- b. ₹ 1000
- c. ₹ 810
- d. ₹ 910

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 100 Question Id : 1300 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A shopkeeper mixes 20 kg of wheat which cost him ₹ 16/kg with 10 kg of wheat which cost him ₹ 12/kg. He sells the mixture at ₹ 18/kg. His profit is

- a. ₹100
- b. ₹110
- c. ₹115
- d. ₹120

Options :

- 1. ✓ a.
- 2. ✗ b.
- 3. ✗ c.
- 4. ✗ d.

Question Number : 101 Question Id : 1301 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In two vessels A and B, spirit and water are in the ratio 5:2 and 3:4 respectively. The ratio in which these are mixed which contains spirit and water in the ratio 2:1 is

- a. 5:2
- b. 2:5
- c. 5:1
- d. 1:5

Options :

- 1. ✗ a.
- 2. ✗ b.
- 3. ✓ c.
- 4. ✗ d.

Question Number : 102 Question Id : 1302 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The speed of a car is 90 km/h. The time taken by it in seconds to cover a distance of 700m is

- a. 20
- b. 25
- c. 28
- d. 35

Options :

- 1. ✗ a.
- 2. ✗ b.
- 3. ✓ c.
- 4. ✗ d.

Question Number : 103 Question Id : 1303 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A train 120 m long is moving with the speed of 72 km/h. The time taken in seconds, to cross a stationary train 100 m long is

- a. 5
- b. 6
- c. 11
- d. 15

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✔ c.
- 4. ✘ d.

Question Number : 104 Question Id : 1304 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A and B can do a piece of work in 10 day. A alone can do the same work in 15 days.

In how many days B alone can do same work?

- a. 30
- b. 25
- c. 22
- d. 20

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 105 Question Id : 1305 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

P and Q can do a piece work in 15 days, Q and R in 12 days and R and P in 20 days.

The number of days required for P to do same work is

- a. 20
- b. 30
- c. 50
- d. 60

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✔ d.

Question Number : 106 Question Id : 1306 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average of cubes of first five whole numbers is

- a. 25
- b. 20
- c. 16
- d. 6

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 107 Question Id : 1307 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average of 11 observations is 20. If average of first 6 observations is 18 and average of last 6 observations is 25, the sixth observation is

- a. 38
- b. 45
- c. 36
- d. 43

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 108 Question Id : 1308 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sum of first 16 terms of the AP

10, 7, 4, 1, ..., is

- a. -400
- b. -300
- c. -200
- d. -800

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✔ c.
- 4. ✘ d.

Question Number : 109 Question Id : 1309 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sum of infinite GP  $1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \dots$ , is

- a. 5
- b. 4
- c. 3
- d. 2

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✔ d.

Question Number : 110 Question Id : 1310 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A vertical pole is tied with a string of length 20m on the ground. If string makes an angle of  $30^\circ$  with the ground, the length of pole is

- a.  $10\sqrt{3}$ m
- b. 10m
- c. 15m
- d.  $5\sqrt{3}$  m

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 111 Question Id : 1311 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angles of elevation of top of a tower, 30m high, from two points on same side of the tower are  $30^\circ$  and  $60^\circ$  respectively. If the two point and base of tower are in same line, the distance between two points is

- a.  $20\sqrt{3}$ m
- b.  $20(\sqrt{3} + 1)$ m
- c.  $40\sqrt{3}$ m
- d.  $40(\sqrt{3} - 1)$ m

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 112 Question Id : 1312 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33



If  $(x+2)$  is a factor of  $ax^2-5x+6=0$ , then  $a$  is equal to

- a. 8
- b. -8
- c. -4
- d. 4

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✔ c.
- 4. ✘ d.

Question Number : 113 Question Id : 1313 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

One of the factor of  $(3x-4y)^3+(4x-3y)^3$  is

- a.  $(y+x)$
- b.  $(7x-y)$
- c.  $(7y-3x)$
- d.  $(x-y)$

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✔ d.

Question Number : 114 Question Id : 1314 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The value of  $k$  for which  $3x^2-5x+2k=0$  has equal roots is

- a.  $\frac{25}{24}$
- b.  $\frac{25}{6}$
- c.  $\frac{25}{12}$
- d.  $\frac{25}{18}$

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 115 Question Id : 1315 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sum of squares of the roots of the equations  $x^2-5x+4=0$  is

- a. 15
- b. 17
- c. 20
- d. 25

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 116 Question Id : 1316 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Match List 1 with List 2 and select the correct answer from the codes given below in the list

List 1 (State)	List 2 (Emblem)
A. Chera	1. Bow
B. Chola	2. Tiger
C. Pandya	3. Fish

- |    |      |      |      |
|----|------|------|------|
| 1. | A- 1 | B- 2 | C- 3 |
| 2. | A-3  | B-2  | C-1  |
| 3. | A-3  | B-1  | C- 2 |
| 4. | A-2  | B-1  | C-3  |

Options :

- 1. ✔ 1
- 2. ✘ 2
- 3. ✘ 3
- 4. ✘ 4

Question Number : 117 Question Id : 1317 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The medieval ruler who was the first to establish a ministry of agriculture(Diwan-i-Kohi) was

- 1. Alauddin Khilji
- 2. Mohammad Bin Tughlaq
- 3. Sher Shah
- 4. Akbar

Options :

- 1. ✘ 1
- 2. ✔ 2
- 3. ✘ 3
- 4. ✘ 4

Question Number : 118 Question Id : 1318 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

When did Queen Victoria declared the taking over the Indian Administration under British crown

1. 1 November, 1858
2. 31 December, 1857
3. 6 January, 1958
4. 17 November, 1859

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 119 Question Id : 1319 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Through which one of the following continent, do the equator, the tropic of cancer and the tropic of capricorn pass through

1. Africa
2. South America
3. North America
4. Australia

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 120 Question Id : 1320 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Shivasundaram Falls are located in the course of the river

1. Krishna
2. Godavari
3. Kaveri
4. Mahanadi

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 121 Question Id : 1321 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which one state of India is surrounded by Bangladesh from three sides

1. Mizoram
2. Meghalaya
3. Tripura
4. West Bengal

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 122 Question Id : 1322 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The torque on a rectangular coil placed in uniform magnetic field is large when the

1. number of turns is large
2. number of turns is less
3. plane of the coil is perpendicular to the magnetic field
4. area of the coil is small

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 123 Question Id : 1323 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is the best conductor of heat

1. mercury
2. water
3. leather
4. benzene

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 124 Question Id : 1324 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Due to contraction of eyeball, a long sighted eye can see only

1. farther objects which is corrected using convex lens
2. farther objects which is corrected using concave lens
3. nearer objects which is corrected using convex lens
4. nearer objects which is corrected using concave lens

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 125 Question Id : 1325 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Who among the following was the chairman of the union constitution committee of the constituent assembly

1. B.R. Ambedkar
2. J. B. kripalani
3. Jawaharlal Nehru
4. Alladi Krishnaswamy Iyer

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 126 Question Id : 1326 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following Constitutional Amendments state that the total number of ministers, including the prime minister in the council of ministers shall not exceed 15% of the total number of members of the house of the people

1. 90th
2. 91st
3. 92nd
4. 93rd

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 127 Question Id : 1327 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Depreciation is equal to

1. Gross National Product - Net National Product
2. Net National Product - Gross National Product
3. Gross National Product - Personal Income
4. Personal Income - Personal Taxes

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 128 Question Id : 1328 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The slogan 'Garibi Unmulan'(Poverty eradication) was given in which Five year plan

1. Second plan
2. Fourth plan
3. Fifth plan
4. Sixth plan

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 129 Question Id : 1329 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The first Census in India during the British period was held during the tenure of

1. Lord Dufferin
2. Lord Lytton
3. Lord Mayo
4. Lord Ripon

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 130 Question Id : 1330 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In Baseball, how many players are there in each side

1. 5
2. 7
3. 9
4. 11

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 131 Question Id : 1331 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which nation won the Azlan shah cup Hockey in april 2015

1. India
2. South korea
3. Australia
4. New Zealand

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 132 Question Id : 1332 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Viruses are made up of

1. Protein & lipids
2. Nucleic acid & protein
3. Lipids & Carbohydrate
4. Carbohydrate & Nucleic acid

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 133 Question Id : 1333 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33



Which of the following crop enrich the soil with nitrogen

1. potato
2. sorghum
3. sunflower
4. pea

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 134 Question Id : 1334 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following is a protein fiber

1. Nylon
2. Polyester
3. Silk
4. Cotton

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 135 Question Id : 1335 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

What are the element present in urea

1. C,H,O
2. C,N,O
3. C,N,H
4. C,O,N,H

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 136 Question Id : 1336 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A radioactive substance has a half life of four months. Three-fourth of the substance would decay in

1. 3 months
2. 4 months
3. 8 months
4. 12 months

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 137 Question Id : 1337 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In an atom the order of filling up of the orbitals is governed by

1. Aufbau principle
2. Heisenberg's uncertainty principle
3. Hund's rule
4. Pauli's exclusion principle

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 138 Question Id : 1338 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Scientists of which country have invented a new super powerful electron microscope -super STEM 3 That can examine objects a million times smaller than a human hair?

1. Australia
2. France
3. Britain
4. USA

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 139 Question Id : 1339 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Who has been bestowed with the 46 th Dada Saheb Phalke Award for 2014?

1. Rishi Kapoor
2. Shashi Kapoor
3. Pran
4. Gulzar

Options :





1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 140 Question Id : 1340 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which film was adjusted as the Best Motion pictures at the 87 th Acedemy awards (oscars) on February 22 ,2015?

- 1.The theory of everything
- 2.The Grand- budapest Hotel
- 3.Birdman
- 4.still Alice

Options :

1.  1
2.  2
3.  3
4.  4

Question Number : 141 Question Id : 1341 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A + B means A is the father of B. A X B means A is the son of B, A – B means A is the wife of B.

If Z X T – S + U, then how is Z related to U?

- 1) Brother
- 2) Cousin
- 3) Sister
- 4) Uncle

Options :

1.  1)
2.  2)
3.  3)
4.  4)





Question Number : 142 Question Id : 1342 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The first two numbers on the left of the sign '::<sup>1</sup>' are related in a certain way. The same relationship holds for the second pair of numbers on the right side of the sign '::<sup>1</sup>' of which one is missing. Find the missing one from the alternatives.

$$81 : 8 :: 49 : ?$$

- 1) 5      2) 6      3) 7      4) 9

Options :





1.  1)  
2.  2)  
3.  3)  
4.  4)

Question Number : 143 Question Id : 1343 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

'Nurse' is related to 'Hospital' in the same way as 'Farmer' is related to:

- 1) Village      2) Grains      3) Cultivation      4) Field

Options :

1.  1)  
2.  2)  
3.  3)  
4.  4)

Question Number : 144 Question Id : 1344 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33





A team of five is to be selected from four boys A, B, C and D, and four girls E, F, G and H.

- (i) B and F cannot be put together.
- (ii) C and H must go together.
- (iii) G and A cannot be put together.
- (iv) D and C cannot go together.

If 3 boys and 2 girls are to be selected, the team would consist of:

- 1) CBAHD      2) GCAHD      3) CEBAH      4) GDBEA

Options :

- 1.  1)
- 2.  2)
- 3.  3)
- 4.  4)





Question Number : 145 Question Id : 1345 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Arrange the following words in a meaningful logical sequence and choose the appropriate number sequence from the alternatives.

1. Placement    2. Application    3. Income    4. Education    5. Salary    6. Interview
- 1) 3, 4, 2, 6, 1, 5
  - 2) 4, 2, 6, 1, 5, 3
  - 3) 3, 5, 1, 2, 4, 6
  - 4) 4, 2, 5, 6, 1, 3

Options :

- 1.  1)
- 2.  2)
- 3.  3)
- 4.  4)

Question Number : 146 Question Id : 1346 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

One term in the following number series is wrong. Find out the wrong term.

1440, 240, 50, 12, 4, 2

- 1) 4      2) 240      3) 12      4) 50

Options :

1.  1)

2.  2)

3.  3)

4.  4)

Question Number : 147 Question Id : 1347 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If BAD = 14 and FIG = 44, then HIS will be equal to:

- 1) 72      2) 68      3) 66      4) 58

Options :

1.  1)

2.  2)

3.  3)

4.  4)

Question Number : 148 Question Id : 1348 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 'DEMOCRACY' is coded as 'MEDRCOYCA', then 'ADVENTURE' would be coded as:

- 1) DAVNETURE      2) VDAENTERU      3) VDATNEERU      4) VDATNERUE

Options :

1.  1)

2.  2)

3.  3)

4.  4)

Question Number : 149 Question Id : 1349 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A boy walked 2 km towards West and turned left and walked 3 km. Then he took a right turn and walked 4 km. Finally he took a left turn and walked 5 km. How far is he from the starting point?

- 1) 10 km      2) 14 km      3) 12 km      4) 9 km

Options :

1.  1)

2.  2)

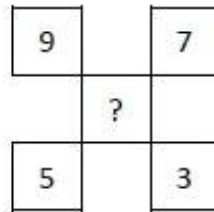
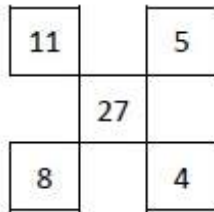
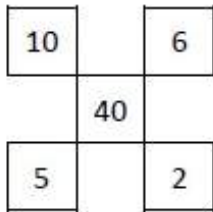
3.  3)

4.  4)

Question Number : 150 Question Id : 1350 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The numbers in the following figures follow a pattern. Which number would replace the question mark?



- 1) 36      2) 40      3) 45      4) 55

Options :

1.  1)

2.  2)

3.  3)

4.  4)



# Railway Recruitment Board

## Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

<b>Question Paper Name:</b>	Junior Engineer 28th Aug Shift 2 Actual
<b>Subject Name:</b>	Junior Engineer
<b>Creation Date:</b>	2015-08-18 12:43:53.0
<b>Cut Off:</b>	0
<b>Duration:</b>	120
<b>Number of Questions:</b>	150
<b>Total Marks:</b>	150.0

## Junior Engineer

Group Number :	1
Group Id :	8
Group Maximum Duration :	0
Group Minimum Duration :	120
Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Group Marks:	150.0

## Junior Engineer

Section Id :	8
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	150
Number of Questions to be attempted:	150
Section Marks:	150.0

Sub-Section Number:	1
Sub-Section Id:	8
Question Shuffling Allowed :	Yes

**Question Number : 1 Question Id : 1501 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33**

For an ideal gas the value of joule thomson coefficient is

1. Zero
2. 0.5
3. Unity
4. Infinite

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 2 Question Id : 1502 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Perpetual motion machine of second kind violates the

1. First law of thermodynamics
2. Kelvin-plank statement
3. Clausius statement
4. Third law of thermodynamics

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 3 Question Id : 1503 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The ratio of thermal conductivity to electrical conductivity is equal to

1. Prandtl number
2. Schmidt number
3. Lorentz number
4. Lewis number

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 4 Question Id : 1504 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The effectiveness of a fin will be maximum in an environment with

1. Free convection
2. Forced convection
3. Radiation
4. Convection and radiation

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 5 Question Id : 1505 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

With increasing temperature of intake air, IC engine efficiency

1. Decreases
2. Increases
3. Remains same
4. Depends on other factors

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 6 Question Id : 1506 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Thermal efficiency of CI engine is higher than that of SI engine due to

1. Fuel used
2. Higher compression ratio
3. Constant pressure heat addition
4. Lower compression ratio

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 7 Question Id : 1507 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The float in the carburettor of a petrol engine controls

1. Flow rate of air
2. Flow rate of fuel
3. Flow rate of air-fuel mixture
4. Level of the petrol in the float chamber

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 8 Question Id : 1508 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Angle between the face and flank of the single point cutting tool is known as

1. Rake angle
2. Clearance angle
3. Lip angle
4. Point angle

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 9 Question Id : 1509 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is a cutting tool material

1. High speed steel
2. Mild steel
3. Cast iron
4. Galvanized steel

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 10 Question Id : 1510 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In milling machine, the cutting tool is held in position by

1. Chuck
2. Spindle
3. Arbor
4. Tool holder

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 11 Question Id : 1511 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Collapsible tooth paste tubes are manufactured by

1. Direct extrusion
2. Piercing
3. Impact extrusion
4. Indirect extrusion

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 12 Question Id : 1512 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Sprue in casting refers to

1. Gate
2. Runner
3. Riser
4. Vertical passage

Options :

1. ✘ 1

2. ✘ 2

3. ✘ 3

4. ✔ 4

Question Number : 13 Question Id : 1513 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In arc welding, arc is created between the electrode and work by

1. Flow of current
2. Voltage
3. Material characteristics
4. Contact resistance

Options :

1. ✘ 1

2. ✘ 2

3. ✘ 3

4. ✔ 4

Question Number : 14 Question Id : 1514 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Preheating of work piece is essential in welding

1. High speed steel
2. Stainless steel
3. Cast iron
4. Aluminium

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 15 Question Id : 1515 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

An ideal voltage source should have

1. large value of emf
2. small value of emf
3. zero source resistance
4. infinite source resistance

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 16 Question Id : 1516 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which bulbs operates on lowest power

1. Night bulb
2. Neon bulb
3. GLS bulb
4. Torch bulb

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 17 Question Id : 1517 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Electrode is not consumed in the case of

1. TIG welding
2. MIG welding
3. Gas welding
4. Resistance welding

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 18 Question Id : 1518 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33



DC generator are installed near the load centres to reduce

1. iron losses
2. line losses
3. sparking
4. corona losses

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 19 Question Id : 1519 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a DC motor, constant torque is produced due to

1. rotor laminations
2. end plates
3. pole shoes
4. commutator

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 20 Question Id : 1520 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is not a part of transformer

1. Conservator
2. Buccholz Relay
3. Exciter
4. Breather

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 21 Question Id : 1521 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

An induction motor is

1. self starting with zero torque
2. self starting with high torque
3. self starting with low torque
4. non self starting

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 22 Question Id : 1522 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The term "cogging" is associated with

1. three phase transformer
2. compound generators
3. DC series motor
4. Induction motors

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 23 Question Id : 1523 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The speed of universal motor is generally reduced by using

1. gear trains
2. V- belts
3. brakes
4. chains

Options :

1. ✔ 1
2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 24 Question Id : 1524 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A thermal protection switch can protect against

1. short circuit
2. temperature
3. over load
4. Variable load

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 25 Question Id : 1525 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In a bipolar transistor which current is largest

1. collector current
2. base current
3. emitter current
4. base or emitter current

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 26 Question Id : 1526 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The word enhancement mode is associated with

1. tunnel diode
2. MOSFET
3. photodiode
4. varactor diode

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 27 Question Id : 1527 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following has highest resistivity?

1. Mica
2. Paraffin
3. Air
4. Mineral oil

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 28 Question Id : 1528 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Power diodes are generally

1. silicon diodes
2. germanium diodes
3. carbon diodes
4. carbon or germanium diodes

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 29 Question Id : 1529 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The depletion layer width of Junction

1. decreases with light doping
2. is independent of applied voltage
3. increases under reverse bias
4. increases with heavy doping

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 30 Question Id : 1530 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

For mercury arc rectifiers, the anode is usually made up of

1. aluminium
2. graphite
3. tungsten
4. copper

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 31 Question Id : 1531 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

For effective modulation, the degree of modulation should

1. small
2. never exceed 100%
3. be large
4. always more than 100%

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 32 Question Id : 1532 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of them radiates emission?

1. LED
2. LCD
3. Both LCD and LED
4. Neither LCD nor LED

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 33 Question Id : 1533 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Binary 101010 is equivalent to decimal number

1. 24
2. 42
3. 64
4. 44

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 34 Question Id : 1534 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The number of valence electrons in donor impurity are

1. 1
2. 3
3. 5
4. 7

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 35 Question Id : 1535 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A prismatic beam has uniform

1. Depth
2. Width
3. Strength
4. Cross-section

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 36 Question Id : 1536 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A well graded soil has a coefficient of curvature between

1. 10 to 12
2. 7 to 9
3. 4 to 6
4. 1 to 3

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 37 Question Id : 1537 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33



How is the deflection in RC beams controlled as per IS:456?

1. By using large aspect ratio
2. By using small modular ratio
3. By controlling span/depth ratio
4. By moderating water-cement ratio

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 38 Question Id : 1538 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A steel beam supporting loads from the floor slab as well as from wall is termed as

1. Stringer beam
2. Lintel beam
3. Spandrel beam
4. Header beam

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 39 Question Id : 1539 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The dimensions of dynamic viscosity  $\mu$  are

1.  $ML^{-1}T^{-2}$
2.  $ML^{-1}T^{-1}$
3.  $MLT^{-2}$
4.  $M^{\circ}L^{\circ}T^{\circ}$

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 40 Question Id : 1540 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The representative fraction  $1/2500$  means that the scale 1 cm is equal to

1. 0.25 m
2. 2.5 m
3. 25 m
4. 2.5 km

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 41 Question Id : 1541 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

CPM is the

1. time oriented technique
2. event oriented technique
3. activity oriented technique
4. target oriented technique

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 42 Question Id : 1542 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following cement has maximum percentage of  $C_3S$

1. Ordinary portland cement
2. Low heat cement
3. Sulphate resisting cement
4. Rapid hardening cement

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 43 Question Id : 1543 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Consistency as applied to cohesive soils is an indicator of its

1. Density
2. Moisture content
3. Shear strength
4. Porosity

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 44 Question Id : 1544 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The needle of a magnetic compass is generally supported on a

1. Bush bearing
2. Ball bearing
3. Needle bearing
4. Jewel bearing

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 45 Question Id : 1545 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Stainless steel resist corrosion due to

1. Carbon
2. Manganese
3. Chromium
4. Sulphur

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 46 Question Id : 1546 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A barometer is used to measure

1. Very low pressure
2. Very High pressure
3. Pressure difference between two points
4. Atmospheric pressure

Options :

1. ✘ 1

2. ✘ 2

3. ✘ 3

4. ✔ 4

Question Number : 47 Question Id : 1547 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The household energy meter is

- a. indicating instrument
- b. recording instrument
- c. integrating instrument
- d. visible instrument

Options :

1. ✘ a.

2. ✘ b.

3. ✔ c.

4. ✘ d.

Question Number : 48 Question Id : 1548 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Magnetic flux density has the dimensions

- a.  $MI^{-1}T^{-2}$
- b.  $M^{-1}I^{-2}T^{-2}$
- c.  $ML^{-3}T^{-2}$
- d.  $MI^{-1}T^{-3}$

Options :

1. ✔ a.

2. ✘ b.

3. ✘ c.

4. ✘ d.

Question Number : 49 Question Id : 1549 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

**Assertion (A):** De sauty's bridge is suitable only for pure capacitor.

**Reason (R):** Capacitors are mostly perfect.

- a. Both A and R are true and R is correct explanation of A
- b. Both A and R are true but R is not correct explanation of A
- c. A is true R is false
- d. A is false R is true

Options :

1. ✘ a.

2. ✘ b.

3. ✔ c.

4. ✘ d.

Question Number : 50 Question Id : 1550 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A voltmeter using thermocouples measures

- a. RMS value
- b. Peak value
- c. Average value
- d. Peak to peak value

Options :

1. ✔ a.

2. ✘ b.

3. ✘ c.

4. ✘ d.

Question Number : 51 Question Id : 1551 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

To increase Q factor of a coil, the wire should be

- a. Thin
- b. Thick
- c. Long
- d. long and thin

Options :

1. ✘ a.

2. ✔ b.

3. ✘ c.

4. ✘ d.

Question Number : 52 Question Id : 1552 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The undesirable taste and odours caused by dissolved gases may be removed by

- (a) chemical treatment
- (b) aeration
- (c) disinfection
- (d) reverse osmosis

Options :

- 1. ✘ (a)
- 2. ✔ (b)
- 3. ✘ (c)
- 4. ✘ (d)

Question Number : 53 Question Id : 1553 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The biochemical oxygen demand of treated water should be

- (a) nil
- (b) less than 30 mg/l
- (c) less than 150 mg/l
- (d) always more than 9 mg/l

Options :

- 1. ✔ (a)
- 2. ✘ (b)
- 3. ✘ (c)
- 4. ✘ (d)

Question Number : 54 Question Id : 1554 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The function of sluice valve provided in pipe line is

- (a) to reduce the chances of pollution reaching into the pipe
- (b) to reduce the pressure on pipes
- (c) to regulate the flow of water through the pipes
- (d) to allow the air to enter the pipe

Options :

- 1. ✘ (a)
- 2. ✘ (b)
- 3. ✔ (c)
- 4. ✘ (d)

Question Number : 55 Question Id : 1555 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The source of lead in urban atmosphere is

- a. bursting of cracker in festive season
- b. road traffic
- c. construction works
- d. small scale industries

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 56 Question Id : 1556 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The noise level decreases with distance following

- (a) inverse square law
- (b) power law
- (c) directly proportional to intensity square
- (d) inversely proportional to intensity

Options :

- 1. ✔ (a)
- 2. ✘ (b)
- 3. ✘ (c)
- 4. ✘ (d)

Question Number : 57 Question Id : 1557 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The major pollutant that may cause damage to prestigious monument Taj Mahal is

- (a) RSPM along with humidity
- (b) NO<sub>x</sub> with HC+Ozone
- (c) SO<sub>x</sub> with humidity
- (d) Organic vapours released from Mathura refinery

Options :

- 1. ✘ (a)
- 2. ✘ (b)
- 3. ✔ (c)
- 4. ✘ (d)

Question Number : 58 Question Id : 1558 Question Type : MCQ Option Shuffling : No



Correct : 1.0 Wrong : 0.33

Microphone is a(an) \_\_\_\_\_

- (A) Input device (B) Output device  
(C) Storage device (D) Both input and output device

Options :

1. ✓ (A)  
2. ✗ (B)  
3. ✗ (C)  
4. ✗ (D)

Question Number : 59 Question Id : 1559 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is a volatile memory?

- (A) Cache memory (B) Hard Disk  
(C) DVD (D) CD

Options :

1. ✓ (A)  
2. ✗ (B)  
3. ✗ (C)  
4. ✗ (D)

Question Number : 60 Question Id : 1560 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Dynamic RAM (DRAM) is slower than Static RAM (SRAM) because \_\_\_\_\_

- (A) DRAM uses flip-flops (B) DRAM is costlier  
(C) DRAM requires refreshing (D) DRAM is cheaper

Options :

1. ✗ (A)  
2. ✗ (B)  
3. ✓ (C)  
4. ✗ (D)

Question Number : 61 Question Id : 1561 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

UTF-16 is a(an) \_\_\_\_\_

- (A) 8-bit fixed-width encoding (B) 8-bit variable-width encoding  
(C) 16-bit variable-width encoding (D) 16-bit fixed-width encoding

Options :

1. ✗ (A)  
2. ✗ (B)  
3. ✓ (C)

4. ✘ (D)

Question Number : 62 Question Id : 1562 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The hexadecimal representation of  $(407)_8$  is \_\_\_\_\_

(A)  $(107)_{16}$

(B)  $(701)_{16}$

(C)  $(017)_{16}$

(D)  $(710)_{16}$

Options :

1. ✔ (A)

2. ✘ (B)

3. ✘ (C)

4. ✘ (D)

Question Number : 63 Question Id : 1563 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Considering X and Y as binary variables, the Boolean expression  $Y + XY$  is equivalent to

(A) X

(B) 1

(C) 0

(D) Y

Options :

1. ✘ (A)

2. ✘ (B)

3. ✘ (C)

4. ✔ (D)

Question Number : 64 Question Id : 1564 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The 2's complement of the binary number  $(11110000)_2$  is

(A)  $(00001111)_2$

(B)  $(11110000)_2$

(C)  $(00010000)_2$

(D)  $(10101010)_2$

Options :

1. ✘ (A)

2. ✘ (B)

3. ✔ (C)

4. ✘ (D)

Question Number : 65 Question Id : 1565 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following category of viruses does not replicate themselves?

(A) Worms

(B) Trojan horses

(C) Boot sector viruses

(D) Macro viruses

Options :

1. ✘ (A)
2. ✔ (B)
3. ✘ (C)
4. ✘ (D)

Question Number : 66 Question Id : 1566 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In class 'B' IP addresses, number of network ID bits used to identify the class is \_\_\_\_\_

- (A) 0 (B) 1  
(C) 2 (D) 3

Options :

1. ✘ (A)
2. ✘ (B)
3. ✔ (C)
4. ✘ (D)

Question Number : 67 Question Id : 1567 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following categories of networks has largest geographic area?

- (A) WAN (B) PAN  
(C) LAN (D) MAN

Options :

1. ✔ (A)
2. ✘ (B)
3. ✘ (C)
4. ✘ (D)

Question Number : 68 Question Id : 1568 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The front view and top view of a line both lie above the XY line. The line is located in:

(a) First Quadrant, (b) Second Quadrant, (c) Third Quadrant, (d) fourth Quadrant.

Options :

1. ✘ (a)
2. ✔ (b)
3. ✘ (c)
4. ✘ (d)

Question Number : 69 Question Id : 1569 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

If the nominal diameter of a bolt is “D”, then the width of the hexagonal nut across flat surfaces is empirically given as:

(a)  $D$ , (b)  $1.5 \times D$ , (c)  $1.5 \times D + 3mm$ , (d)  $1.5 \times D + 5mm$ .

Options :

1. ✘ (a)
2. ✘ (b)
3. ✔ (c)
4. ✘ (d)

Question Number : 70 Question Id : 1570 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A vernier scale is good enough to read in -----after decimal.

(a) One digit, (b) Two digits, (c) Three digits, (d) Four digits.

Options :

1. ✘ (a)
2. ✔ (b)
3. ✘ (c)
4. ✘ (d)

Question Number : 71 Question Id : 1571 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A sectioning plane cuts a cone such that it is inclined to cone axis at an angle other than  $90^\circ$  and it cuts all its generators. The section so cut is.

(a) Rectangular Hyperbola, (b) A Parabola, (c) A Hyperbola, (d) An ellipse.

Options :

1. ✘ (a)
2. ✘ (b)
3. ✘ (c)
4. ✔ (d)

Question Number : 72 Question Id : 1572 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

An isometric projection is a:

(a) 2D view, (b) 3D view, (c)  $2\frac{1}{2}$ D view, (d) perspective view.

Options :

1. ✔ (a)
2. ✘ (b)
3. ✘ (c)

4. ✘ (d)

Question Number : 73 Question Id : 1573 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is a unit of momentum?

- (a) N m
- (b)  $\text{kg m s}^{-1}$
- (c)  $\text{kg m s}^{-2}$
- (d)  $\text{kg m}^{-2}$

Options :

1. ✘ (a)

2. ✔ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 74 Question Id : 1574 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A ball is thrown vertically upward with a velocity of 19.6 m/s. The maximum height it attains is

(  $g = 9.8 \text{ m/s}^2$  )

- (a) 4.9 m
- (b) 9.8 m
- (c) 19.6 m
- (d) 39.2 m

Options :

1. ✘ (a)

2. ✘ (b)

3. ✔ (c)

4. ✘ (d)

Question Number : 75 Question Id : 1575 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A 10 kg box is placed at a height  $h$  above the ground. The potential energy of the box is 980 J. The value of  $h$  is (  $g = 9.8 \text{ m/s}^2$  )

- (a) 10 m
- (b) 20 m
- (c) 98m
- (d) 49m.

Options :

1. ✓ (a)
2. ✗ (b)
3. ✗ (c)
4. ✗ (d)

Question Number : 76 Question Id : 1576 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A source produces sound waves under water. Waves travel through water and some of it is transmitted into air. Which of the following statements about the frequency  $f$  and wavelength  $\lambda$  is correct as sound passes from water to air?

- (a)  $f$  and  $\lambda$  remain unchanged
- (b)  $f$  increases but  $\lambda$  decreases
- (c)  $f$  remains unchanged but  $\lambda$  increases
- (d)  $f$  remains unchanged but  $\lambda$  decreases.

Options :

1. ✗ (a)
2. ✗ (b)
3. ✗ (c)
4. ✓ (d)

Question Number : 77 Question Id : 1577 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A light ray from air enters and passes through a glass slab. Which of the following statements is true about its speed after it emerges from the block?

- (a) Speed is same as that before it entered glass slab
- (b) Speed is same as that in glass slab
- (c) Speed is less than when in glass slab
- (d) Speed is less than before it entered glass slab.

Options :

1. ✓ (a)
2. ✗ (b)
3. ✗ (c)
4. ✗ (d)

Question Number : 78 Question Id : 1578 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33



Two resistors A and B are connected in parallel across a 3.0 V battery. The current through B is found to be 0.25 A. When the two resistors are connected in series to the same battery, the voltage across resistor A is found to be 1.0 V. Resistances of A and B are, respectively

- (a)  $6\ \Omega, 12\ \Omega$
- (b)  $9\ \Omega, 12\ \Omega$
- (c)  $3\ \Omega, 6\ \Omega$
- (d)  $12\ \Omega, 24\ \Omega$

Options :

- 1.  (a)
- 2.  (b)
- 3.  (c)
- 4.  (d)

Question Number : 79 Question Id : 1579 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which among the following is a displacement reaction?

- a)  $\text{CaCO}_3 \text{ ---- } \text{CaO} + \text{CO}_2$
- b)  $2\text{H}_2 + \text{O}_2 \text{ ---- } 2\text{H}_2\text{O}$
- c)  $\text{Pb} + \text{CuCl}_2 \text{ ---- } \text{PbCl}_2 + \text{Cu}$
- d)  $\text{C}_2\text{H}_4 + \text{H}_2 \text{ ---- } \text{C}_2\text{H}_6$

Options :

- 1.  a)
- 2.  b)
- 3.  c)
- 4.  d)

Question Number : 80 Question Id : 1580 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

What is the mass of a molecule of nitrogen?

- a) 14 u
- b) 28 u
- c)  $14 / 6.023 \times 10^{23}$
- d)  $28 / 6.023 \times 10^{23}$

Options :

- 1.  a)
- 2.  b)
- 3.  c)
- 4.  d)





4. ✘ d)

Question Number : 84 Question Id : 1584 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The electronic configuration of an element is 2,7. In which group of the modern periodic table is this element placed?

- a) 7      b) 9  
c) 15     d) 1

Options :

1. ✔ a)  
2. ✘ b)  
3. ✘ c)  
4. ✘ d)

For the above question, User had specified 'ignore' during keys upload.

Question Number : 85 Question Id : 1585 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The hormone secreted by the human ovary is

- a) FSH  
b) LH  
c) Estrogen  
d) Testosterone

Options :

1. ✘ a)  
2. ✘ b)  
3. ✔ c)  
4. ✘ d)

Question Number : 86 Question Id : 1586 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Colour blindness is due to a defective gene on

- a) X chromosome  
b) Y chromosome  
c) First pair of Autosomes  
d) Last pair of Autosomes

Options :

1. ✔ a)

2. ✘ b)

3. ✘ c)

4. ✘ d)

Question Number : 87 Question Id : 1587 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Mushrooms and Yeast are

a ) Lower Plants

b ) Seedless plants

c) Fungi

d) Microorganisms

Options :

1. ✘ a)

2. ✘ b)

3. ✔ c)

4. ✘ d)

Question Number : 88 Question Id : 1588 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The end product of Photosynthesis is a

a ) Carbohydrate

b) Protein

c) Lipid

d) Steroid

Options :

1. ✔ a)

2. ✘ b)

3. ✘ c)

4. ✘ d)

Question Number : 89 Question Id : 1589 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

When fertilizers as nutrients flow from fields into an adjacent pond, algae bloom and cover the surface but fish in the pond die because

- a) algae use up all the Oxygen
- b) algae die and decompose and poison the pond
- c) fish do not get any nutrients
- d) fish do not get any sunlight

Options :

- 1. ✓ a)
- 2. ✗ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 90 Question Id : 1590 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Select the correct statement

- a) Lizards lay eggs but crocodiles give birth to babies
- b) Birds lay eggs but bats give birth to babies
- c) Both bats and birds lay eggs
- d) Tortoises and crocodiles give birth to babies

Options :

- 1. ✗ a)
- 2. ✓ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 91 Question Id : 1591 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The HCF and LCM of 24 and 36 are respectively

- a. 12,36
- b. 24,72
- c. 12,72
- d. 36,72

Options :

- 1. ✗ a.
- 2. ✗ b.
- 3. ✓ c.
- 4. ✗ d.

Question Number : 92 Question Id : 1592 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The least number which when divided by 15 and 18 leaving remainder 6 in each case is

- a. 84
- b. 96
- c. 264
- d. 276

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 93 Question Id : 1593 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $a : b = 5 : 6$  and  $a + b = 220$ , then  $a$  is equal to

- a. 100
- b. 120
- c. 130
- d. 140

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 94 Question Id : 1594 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $4, x, 2x, 32$  are in proportion, then  $x$  is equal to

- a.  $8\sqrt{2}$
- b. 8
- c. 16
- d.  $16\sqrt{2}$

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 95 Question Id : 1595 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 15% of a number is 9, then number is

- a. 30
- b. 45
- c. 60
- d. 75

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✔ c.
- 4. ✘ d.

Question Number : 96 Question Id : 1596 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The simple interest on ₹ 300 for 3.5 years, at 6% per annum is

- a. ₹45
- b. ₹50
- c. ₹53
- d. ₹63

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✔ d.

Question Number : 97 Question Id : 1597 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Compound interest on ₹ 1000 for 3 years compound annually at 10% per annum is

- a. ₹331
- b. ₹300
- c. ₹1300
- d. ₹1331

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 98 Question Id : 1598 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The cost price of an article is ₹ 260. If it is sold at profit of 10% , then selling price is

- a. ₹ 234
- b. ₹ 286
- c. ₹ 334
- d. ₹ 386

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 99 Question Id : 1599 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The selling price of an article is ₹ 648. If it was sold at a profit of 8% ,the cost price of the article was

- a. ₹ 500
- b. ₹ 550
- c. ₹ 600
- d. ₹ 630

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✔ c.
- 4. ✘ d.

Question Number : 100 Question Id : 1600 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A shopkeeper mixes 30 kg of wheat which cost him ₹ 16/kg with 20 kg of wheat which cost him ₹ 18/kg. He sells the mixture at ₹ 20/kg. His gain is

- a. ₹ 260
- b. ₹ 220
- c. ₹ 180
- d. ₹ 160

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✔ d.

Question Number : 101 Question Id : 1601 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33



Two vessels A and B, spirit and water are in the ratio 7:2 and 7:4 respectively. The ratio in which these are mixed which contains spirit and water in the ratio 2:1 is

- a. 3:11
- b. 11:3
- c. 2:7
- d. 7:2

Options :

- 1.  a.
- 2.  b.
- 3.  c.
- 4.  d.

Question Number : 102 Question Id : 1602 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A person cycles at the speed of 36km/h. The time taken by him in seconds, to cover a distance of 1500 m is

- a. 160
- b. 150
- c. 120
- d. 90

Options :

- 1.  a.
- 2.  b.
- 3.  c.
- 4.  d.

Question Number : 103 Question Id : 1603 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A train is moving at a speed of 72 km/h. In 5 seconds it will cover a distance of

- a. 60m
- b. 80m
- c. 100m
- d. 120m

Options :

- 1.  a.
- 2.  b.
- 3.  c.
- 4.  d.

Question Number : 104 Question Id : 1604 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A can do a piece of work in 30 days and B can do same work in 20 days. If they work together, in how many days they can complete the same work?

- a. 10
- b. 12
- c. 15
- d. 16

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 105 Question Id : 1605 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

P and Q can do a piece work in 15 days, Q and R in 12 days and R and P in 20 days.

The number of days required for R to complete the same work is

- a. 60
- b. 50
- c. 30
- d. 20

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✔ c.
- 4. ✘ d.

Question Number : 106 Question Id : 1606 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average of first 5 odd prime numbers is

- a. 5.4
- b. 5.8
- c. 6.8
- d. 7.8

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✔ d.

Question Number : 107 Question Id : 1607 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average of 18 observations is 30 and average of 22 observations is 40. The average of all combined observations is

- a. 35.5
- b. 35
- c. 36
- d. 36.5

Options :

- 1.  a.
- 2.  b.
- 3.  c.
- 4.  d.

Question Number : 108 Question Id : 1608 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

The sum of first 20 terms of the AP

5, 9, 13, 17, ..., is

- a. 850
- b. 840
- c. 820
- d. 860

Options :

- 1.  a.
- 2.  b.
- 3.  c.
- 4.  d.

Question Number : 109 Question Id : 1609 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33

The sum of infinite GP  $5, 1, \frac{1}{5}, \frac{1}{5^2}, \dots$  is

- a.  $\frac{25}{4}$
- b.  $\frac{28}{5}$
- c.  $\frac{29}{4}$
- d.  $\frac{29}{5}$

Options :

- 1.  a.
- 2.  b.
- 3.  c.
- 4.  d.

Question Number : 110 Question Id : 1610 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A vertical pole is tied with a string of length 20m on the ground. If string makes an angle of  $60^\circ$  with the ground, the length of pole is

- a. 10 m
- b.  $10\sqrt{3}$ m
- c.  $\frac{10\sqrt{3}}{3}$  m
- d. 20 m

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 111 Question Id : 1611 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angle of elevation of top of a tower, 30m high, from two points on opposite side of the tower are respectively  $60^\circ$  and  $45^\circ$ . If the point and tower are in same line, the distance between two points is

- a.  $40\sqrt{3}$ m
- b.  $10(3+\sqrt{3})$ m
- c.  $20(\sqrt{3}-1)$ m
- d.  $20(3-\sqrt{3})$ m

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 112 Question Id : 1612 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $(x+1)$  is a factor of  $x^4-2ax^3+x^2-4$ , then a is equal to

- a. -1
- b. 2
- c. 1
- d. -2

Options :

- 1. ✘ a.

2. ✘ b.

3. ✔ c.

4. ✘ d.

Question Number : 113 Question Id : 1613 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

One of the factor of  $(5x-7y)^3 - (3y-4x)^3$  is

a.  $(x-10y)$

b.  $(x-4y)$

c.  $(9x+4y)$

d.  $(9x-10y)$

Options :

1. ✘ a.

2. ✘ b.

3. ✘ c.

4. ✔ d.

Question Number : 114 Question Id : 1614 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The value of k for which  $3x^2-2x+3k=0$  has equal roots is

a.  $\frac{1}{9}$

b. 9

c.  $\frac{1}{18}$

d. 18

Options :

1. ✔ a.

2. ✘ b.

3. ✘ c.

4. ✘ d.

Question Number : 115 Question Id : 1615 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The sum of squares of the roots of the equations  $x^2-5x-6=0$  is

a. 26

b. 30

c. 35

d. 37

Options :

1. ✘ a.

2. ✘ b.

3. ✘ c.

4. ✔ d.

Question Number : 116 Question Id : 1616 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following animals was not represented on seals and terracota art of the Harappan culture

1. Cow
2. Elephant
3. Rhinoceros
4. Tiger

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 117 Question Id : 1617 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A "Forgotten Empire" , written by the renowned historian Robert Sewell is about which of the following Empires

1. Mauryan Empire
2. Kushan Empire
3. Vijaynagar Empire
4. Mughal Empire

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 118 Question Id : 1618 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

During whose Viceroyship did the High Court come into existence at the three presidential cities of Calcutta, Madras and Bombay

1. Warren Hastings
2. Lord Cornwallis
3. John Lawrence
4. Lord Dalhousie

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 119 Question Id : 1619 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The Eastern and Western Ghats meet at the

1. Cardamom Hills
2. Annamalai Hills
3. Nilgiri Hills
4. Palani Hills

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 120 Question Id : 1620 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33



Match List 1 with List 2 and select the correct answer from the codes given below in the list

List 1(State)

- A. Zoji La Pass
- B. Bara Lacha Pass
- C. Jelep La Pass
- D. Niti Pass

List 2(Emblem)

- 1. Sikkim
- 2. Uttarakhand
- 3. Himachal Pradesh
- 4. Jammu and Kashmir

1.	A- 4	B- 1	C- 2	D- 3
2.	A- 2	B-3	C- 4	D- 1
3.	A- 4	B- 3	C- 1	D-2
4.	A- 2	B- 1	C- 4	D- 3

Options :

- 1. ✘ 1
- 2. ✘ 2
- 3. ✔ 3
- 4. ✘ 4

Question Number : 121 Question Id : 1621 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The Karakoram highway connects which of the following pair of countries

- 1. India-Nepal
- 2. India-China
- 3. India-Pakistan
- 4. China-Pakistan

Options :

- 1. ✘ 1
- 2. ✘ 2
- 3. ✘ 3
- 4. ✔ 4

Question Number : 122 Question Id : 1622 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

On raising the temperature of the medium, velocity of light

- 1. increases
- 2. decreases
- 3. remains the same
- 4. suddenly decreases

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 123 Question Id : 1623 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is a paramagnetic

1. nickel
2. cobalt
3. chromium
4. copper

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 124 Question Id : 1624 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

If the length of a simple pendulum increases by 4%, then its time period will be

1. increased by 3%
2. increased by 4%
3. increased by 2%
4. increased by 8%

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 125 Question Id : 1625 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The indian legislature was made bi-cameral for the first time by

1. Indian Council Act 1892
2. Indian Council Act 1909
3. The Government of India Act 1919
4. The Government of India Act 1935

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 126 Question Id : 1626 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Recommendations to the president of india on the specific Union state fiscal relations are made by the-

1. Finance Minister
2. Reserve Bank of india
3. Planning commission
4. Finance Commission

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 127 Question Id : 1627 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Who had estimated National income in India first

1. Dadabhai Naoroji
2. R.C Dutt
3. M.G Ranade
4. W.Hunter

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 128 Question Id : 1628 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Match the Dams and the States in which they are situated

List-1(Dam)

1. Tungabhadra

2. Lower bhawani

3. Idukki

4. Nagarjuna Sagar

List-2(State)

1.Kerala

2.Andhra Pradesh

3.Tamil Nadu

4.Karnataka

1.	A-3	B-2	C- 4	D- 1
2.	A- 2	B- 4	C-3	D- 1
3.	A- 4	B-3	C-1	D-2
4.	A-1	B-4	C- 2	D- 3

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 129 Question Id : 1629 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which one of the following was the Chairman of the Committee on Pricing and Taxation of Petroleum Products?

1. Raja j. Chelliah

2. C.Rangrajan

3. Y.V.Reddy

4. Abid Hussain

Options :

1. ✘ 1

2. ✔ 2

3. ✘ 3

4. ✘ 4

Question Number : 130 Question Id : 1630 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The first Commonwealth Games were held in the year 1930 at

1. London (UK)
2. Sydney(Australia)
3. Hamilton (Canada)
4. Auckland(New Zealand)

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 131 Question Id : 1631 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is currently matched

1. Nehru trophy -Table tennis
2. Holkar trophy-Bridge
3. Ruia trophy-Kabaddi
4. B.C. Roy Trophy-Lawn Tennis

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 132 Question Id : 1632 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The disease Athlete foot is caused by

1. Bacteria
2. Fungi
3. Protozoa
4. Nematod

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 133 Question Id : 1633 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which one of the following is not obtain from stem ?

1. Sunhemp
2. Jute
3. Hemp
4. Cotton

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 134 Question Id : 1634 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Plant which grow in saline soil are

1. Xerophytes
2. Hydrophytes
3. Halophytes
4. Succulents

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 135 Question Id : 1635 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

What are the type of bonds present in  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$

1. Electrovalent and covalent
2. Electrovalent and co-ordinate
3. Electrovalent , covalent, co-ordinate and hydrozen bond
4. Covalent and co-ordinate covalent

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 136 Question Id : 1636 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Match List-I with List -II and select the correct answer using the codes given the Lists

List-I

- A. Blue vitriol
- B. Epsom salt
- C. Baking soda
- D. Caustic soda

List -II

1. Sodium bicarbaonate
2. Sodium hydroxide
3. Magnesium sulphate
4. Copper sulphate

- |      |      |      |      |      |
|------|------|------|------|------|
| (a)  | A-3  | B- 4 | C- 2 | D- 1 |
| (b)  | A- 4 | B- 3 | C- 2 | D- 1 |
| (c)  | A- 3 | B- 4 | C- 1 | D- 2 |
| (d)) | A- 4 | B- 3 | C- 1 | D- 2 |

Options :

1. ✘ (a)
2. ✘ (b)
3. ✘ (c)
4. ✔ (d)

Question Number : 137 Question Id : 1637 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33



Which one of the following is not an essential micronutrient for plants?

1. Boron
2. Zinc
3. Sodium
4. Copper

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 138 Question Id : 1638 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A renowned hindi poet who received the Sahitya Akademi award for his work 'Hawa mein hastakshar' passed away on April 1, 2015 is

1. Ajit Kumar
2. Kailash Vajpayi
3. Harishankar Parsai
4. Ravindra Kalia

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 139 Question Id : 1639 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The 99th Constitution Amendment Act was in the news recently. It is related to

1. National Judicial Appointments Commission
2. Right to work
3. Reservation of women in police services
4. Police action in Naxal-prone areas.

Options :

1. ✔ 1
2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 140 Question Id : 1640 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Who has been declared the best actor and the best actress at the 62nd national film awards announced on march 24, 2014 in new delhi?

1. Sanjari Vijay & kangana Ranaut
2. Sanjari Vijay & Baljinder kaur
3. Bobby simhaa & Kangana ranaut
4. Bobby simhaa & Baljinder kaur

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 141 Question Id : 1641 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

B is the brother of A, who is the father of D. C is the brother of D. D and E are sisters. How is B related to E?

- 1) Uncle      2) Brother      3) Father      4) Grandfather

Options :

1. ✔ 1)

2. ✘ 2)

3. ✘ 3)

4. ✘ 4)

Question Number : 142 Question Id : 1642 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The first two numbers on the left of the sign '::' are related in a certain way. The same relationship holds for the second pair of numbers on the right side of the sign '::' of which one is missing. Find the missing one from the alternatives.

4623 : 2814 :: 6531 : ?

- 1) 3546      2) 4813      3) 3268      4) 3462

Options :

1. ✘ 1)

2. ✘ 2)

3. ✘ 3)

4. ✓ 4)

Question Number : 143 Question Id : 1643 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

'Cat' is related to 'Kitten' in the same way as 'Lion' is related to:

- 1) Puppy                      2) Cub                      3) Lioness                      4) Animal

Options :

1. ✗ 1)

2. ✓ 2)

3. ✗ 3)

4. ✗ 4)

Question Number : 144 Question Id : 1644 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Six persons are sitting in a row. F is to the left of E and right of B. There are 2 persons between E and D and 1 person between A and E. If A is at one of the extremes, who is at the other extreme?

- 1) E                      2) C                      3) B                      4) D

Options :

1. ✗ 1)

2. ✗ 2)

3. ✗ 3)

4. ✓ 4)

Question Number : 145 Question Id : 1645 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Arrange the following words in a meaningful logical sequence and choose the appropriate number sequence from the alternatives.

1. Doctor    2. Medicine    3. Hospital    4. Diagnosis    5. Cure    6. Fever

1) 6, 1, 3, 2, 4, 5

2) 5, 2, 4, 3, 1, 6

3) 6, 3, 1, 4, 2, 5

4) 6, 3, 4, 1, 2, 5

Options :

1. ✗ 1)

2. ✗ 2)

3. ✓ 3)

4. ✗ 4)

Question Number : 146 Question Id : 1646 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

One term in the following number series is wrong. Find out the wrong term.

220, 108, 54, 24, 10, 3

- 1) 108      2) 54      3) 24      4) 10

Options :

1. ✘ 1)  
2. ✔ 2)  
3. ✘ 3)  
4. ✘ 4)

Question Number : 147 Question Id : 1647 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If MOST is coded as 5926 and TRUE is coded as 6814, then SORE will be coded as:

- 1) 2948      2) 4892      3) 9248      4) 2984

Options :

1. ✘ 1)  
2. ✘ 2)  
3. ✘ 3)  
4. ✔ 4)

Question Number : 148 Question Id : 1648 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 'HARMONY' is coded as 'YHANORM', then 'EXPLAIN' would be coded as:

- 1) NEXIPAL      2) LPXENIA      3) NEXIAPL      4) NEIXAPL

Options :

1. ✘ 1)  
2. ✘ 2)  
3. ✔ 3)  
4. ✘ 4)

Question Number : 149 Question Id : 1649 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

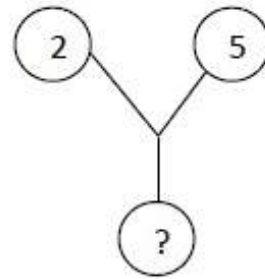
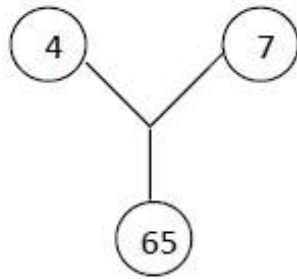
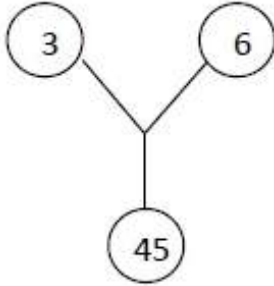
A boy walked Southwards, turned right and walked 3 km. Then he turned left and walked 1 km. If he is 5 km from his starting point, how far did he walk southwards initially?

- 1) 3 km      2) 1 km      3) 4 km      4) 2 km

Options :

1. ✔ 1)  
2. ✘ 2)  
3. ✘ 3)  
4. ✘ 4)

The numbers in the following figures follow a pattern. Which number would replace the question mark?



1) 27

2) 29

3) 31

4) 48

Options :

1. ✘ 1)

2. ✔ 2)

3. ✘ 3)

4. ✘ 4)

# Railway Recruitment Board

## Notations :

- Options shown in green color and with ✓ icon are correct.
- Options shown in red color and with ✗ icon are incorrect.

**Question Paper Name:** Junior Engineer 28th Aug Shift 3 Actual  
**Subject Name:** Junior Engineer  
**Creation Date:** 2015-08-18 12:42:57.0  
**Cut Off:** 0  
**Duration:** 120  
**Number of Questions:** 150  
**Total Marks:** 150.0

## Junior Engineer

Group Number : 1  
Group Id : 9  
Group Maximum Duration : 0  
Group Minimum Duration : 120  
Revisit allowed for view? : No  
Revisit allowed for edit? : No  
Break time: 0  
Group Marks: 150.0

## Junior Engineer

Section Id : 9  
Section Number : 1  
Section type : Online  
Mandatory or Optional: Mandatory  
Number of Questions: 150  
Number of Questions to be attempted: 150  
Section Marks: 150.0

Sub-Section Number: 1  
Sub-Section Id: 9  
Question Shuffling Allowed : Yes

**Question Number : 1 Question Id : 1651 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33**

The cyclic integral of  $(\delta Q - \delta W)$  for a process is

1. Positive
2. Negative
3. Zero
4. Unpredictable

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 2 Question Id : 1652 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Triple point temperature of water is

1. 273 K
2. 273.14 K
3. 273.15 K
4. 273.16 K

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 3 Question Id : 1653 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following law of thermodynamics is responsible for heat transfer

1. Zeroth law of thermodynamics
2. First law of thermodynamics
3. Second law of thermodynamics
4. Third law of thermodynamics

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 4 Question Id : 1654 Question Type : MCQ Option Shuffling : No



Correct : 1.0 Wrong : 0.33

Which one of the following modes of heat transfer would takes place predominantly from boiler furnace to water wall

1. Convection
2. Conduction
3. Radiation
4. Conduction and Convection

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 5 Question Id : 1655 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Compression ratio in case of SI engine is in the range of

1. 6-10
2. 10-15
3. 16-25
4. 25-40

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 6 Question Id : 1656 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Mean effective pressure of otto cycle is

1. Inversely proportional to pressure ratio
2. Directly proportional to pressure ratio
3. Does not depend on pressure ratio
4. Proportional to square root of pressure ratio

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3

4. ✘ 4

Question Number : 7 Question Id : 1657 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The choke is applied when the engine is

1. Accelerating
2. Hot
3. Cold
4. Idling

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 8 Question Id : 1658 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In which of the following milling operation cutter is rotated in same direction of travel of work piece

1. Up milling
2. Down milling
3. Face milling
4. End milling

Options :

1. ✘ 1

2. ✔ 2

3. ✘ 3

4. ✘ 4

Question Number : 9 Question Id : 1659 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Dry and compressed air is used as cutting fluid for machining

1. Steel
2. Aluminium
3. Cast iron
4. Brass

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 10 Question Id : 1660 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Spine-holes are machined by

1. Milling
2. Boring
3. Drilling
4. Broaching

Options :

1. ✘ 1

2. ✘ 2

3. ✘ 3

4. ✔ 4

Question Number : 11 Question Id : 1661 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In the forging operation, fullering is done to

1. Draw out the material
2. Bend the material
3. Upset the material
4. Extrude the material

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 12 Question Id : 1662 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which one of the following is not a fusion welding process

1. Gas welding
2. Arc welding
3. Brazing
4. Resistance welding

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 13 Question Id : 1663 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The centrifugal casting method is used for casting articles of

1. Symmetrical shape about vertical axis
2. Symmetrical shape about horizontal axis
3. Irregular shape
4. Non-ferrous metal only

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 14 Question Id : 1664 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The purpose of jigs and fixture is to

1. Increase machining accuracy
2. facilitate interchangeability
3. Decrease expenditure on quality control
4. Decrease Machining accuracy

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 15 Question Id : 1665 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Directional relays are based on the flow of

1. power
2. voltage wave
3. current
4. field

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 16 Question Id : 1666 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In fuel cell,..... Energy is converted into electrical energy.

1. mechanical
2. heat
3. sound
4. chemical

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 17 Question Id : 1667 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Francis turbine is usually used for

1. medium heads
2. lower heads
3. higher heads
4. lower,medium and higher heads

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 18 Question Id : 1668 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angle between rotating stator flux and rotor poles is called

1. torque angle
2. obtuse angle
3. synchronising angle
4. power factor angle

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 19 Question Id : 1669 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following motors is used in tape recorders

1. Hysterisis motor
2. Reluctance motor
3. Capacitor run motor
4. Universal motor

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 20 Question Id : 1670 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Slip rings for induction motors are made up of

1. cobalt steel
2. aluminium
3. carbon
4. phosphor bronze

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3

4. ✓ 4

Question Number : 21 Question Id : 1671 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A transformer is working at its maximum efficiency. Its iron loss is 1 kW. Its copper loss will be

1. 0.2 kW
2. 0.25 kW
3. 0.5 kW
4. 1 kW

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 22 Question Id : 1672 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

For arc heating, electrodes are made up of

1. Copper
2. Aluminium
3. Graphite
4. Tungsten

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 23 Question Id : 1673 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Sodium lamps are used in

1. Reading rooms
2. Street Lights
3. Auditoriums
4. Libraries

Options :

1. ✗ 1
2. ✗ 2



3. ✘ 3

4. ✔ 4

Question Number : 24 Question Id : 1674 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The fuse wire is made up of

1. Nichrome
2. Lead-tin alloy
3. Copper
4. Tungsten

Options :

1. ✘ 1

2. ✔ 2

3. ✘ 3

4. ✘ 4

Question Number : 25 Question Id : 1675 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

There are ..... Number of modulation techniques.

1. 1
2. 2
3. 3
4. 4

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 26 Question Id : 1676 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In frequency modulation

1. amplitude of carrier wave remains the same.
2. frequency of carrier wave remains constant.
3. both frequency and amplitude of carrier waves vary.
4. signal gets distorted.

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 27 Question Id : 1677 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In mercury arc rectifier, mercury is used as

1. cathode
2. conducting medium
3. ionizing medium
4. electron accelerator

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 28 Question Id : 1678 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

For single phase rotary converters, when the power factor is unity, the ac to dc current ratio will be

1. 1.0
2. 0.707
3. 1.4
4. 0.5

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 29 Question Id : 1679 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

When a material becomes a superconductor, its resistivity becomes

1. very small
2. zero
3. about 10% of normal value
4. about 20% of normal value

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 30 Question Id : 1680 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The inputs of logic gate are 0. The output is 1. The gate is

1. NAND or XOR
2. OR or XOR
3. AND or XOR
4. NOR or Ex-NOR

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 31 Question Id : 1681 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Octal number 12 is equal to decimal number

1. 9
2. 10
3. 11
4. 12

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3

4. ✘ 4

Question Number : 32 Question Id : 1682 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The output of a NOR gate is HIGH if .....

1. all inputs are high
2. any input is high
3. any input is low
4. all inputs are low

Options :

1. ✘ 1

2. ✘ 2

3. ✘ 3

4. ✔ 4

Question Number : 33 Question Id : 1683 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A circuit that uses an amplifier with passive filter elements is called a(n)

1. relaxation oscillator
2. signal generator
3. active filter
4. differential amplifier

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 3

4. ✘ 4

Question Number : 34 Question Id : 1684 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Ionization within a P-N junction causes a layer on each side of the barrier called the

1. junction
2. depletion region
3. barrier voltage
4. forward voltage

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 35 Question Id : 1685 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Cup-and-cone type fracture occurs in the case of

1. Cast iron
2. Round specimen of ductile metals
3. Tough steel
4. Soft brass

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 36 Question Id : 1686 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Liquid limit of a soil indicates its

1. Compressibility
2. Permeability
3. Optimum moisture
4. Shear strength

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 37 Question Id : 1687 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Deep beams are designed for

1. Shear force only
2. Bending moment only
3. Both shear force and bending moment
4. Bearing

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 38 Question Id : 1688 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following stresses is independent of yield stress as a permissible stress for steel member?

1. Axial tensile stress
2. Maximum shear stress
3. Bearing stress
4. Stress in slab base

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 39 Question Id : 1689 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The capillary depression in mercury is on account of

1. Adhesion being larger than the viscosity
2. Surface tension being larger than the viscosity
3. Cohesion being greater than the adhesion
4. Vapour pressure being small

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3

4. ✘ 4

Question Number : 40 Question Id : 1690 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Ranging is the process of

1. Fixing ranging rods on the extremities of the area
2. Aligning the chain in a straight line between two extremities
3. Taking offsets from a chain line
4. Chaining over a range of mountains

Options :

1. ✘ 1

2. ✔ 2

3. ✘ 3

4. ✘ 4

Question Number : 41 Question Id : 1691 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Economic saving of time results by crashing

1. Cheapest critical activity
2. Cheapest non critical activity
3. Costliest critical activity
4. Costliest non critical activity

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 42 Question Id : 1692 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following does not react with concrete?

1. Sewage water
2. Sulphuric acid
3. Vegetable oil
4. Alcohol

Options :



1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 43 Question Id : 1693 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The porosity of a soil sample having its void ratio equal to unity would be

1. 33.34%
2. 50.0%
3. 66.66%
4. 75.0%

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 44 Question Id : 1694 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

What is the angle between two plane mirrors of an optical square?

1. 30
2. 60
3. 45
4. 90

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 45 Question Id : 1695 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Theodolite is an instrument used for

1. Tightening the capstan-headed nuts of level tube
2. Measurement of horizontal angles only
3. Measurement of vertical angles only
4. Measurement of both horizontal and vertical angles

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 46 Question Id : 1696 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An aeroplane works on

1. Archimedes principle
2. Pascal's law
3. Bernoulli's principle
4. Stoke's law

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 47 Question Id : 1697 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In 3 phase power measurement by two wattmeter method, the reading of one wattmeter is zero. The power factor of load is

- a. 1
- b. 0.5
- c. 0
- d. 0.8

Options :

1. ✘ a.
2. ✔ b.
3. ✘ c.

4. ✘ d.

Question Number : 48 Question Id : 1698 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a CRO which of the following is not a part of electron gun

- a. cathode
- b. grid
- c. accelerating anode
- d. X - Y plates

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✔ d.

Question Number : 49 Question Id : 1699 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a strain measuring device using a strain gauge, the output quantity is

- a. voltage
- b. resistance
- c. impedance
- d. Current

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 50 Question Id : 1700 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Potentiometer method of dc voltage measurement is more accurate than direct measurement using a voltmeter because

- a. it loads the circuit to maximum extent
- b. it loads the circuit moderately
- c. it does not load the circuit at all
- d. it uses centre zero galvanometer instead of Voltmeters

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✔ c.
- 4. ✘ d.

Question Number : 51 Question Id : 1701 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

**Assertion (A):** A hot wire ammeter has a cramped scale.

**Reason (R):** The heat is proportional to square of current.

- Both A and R are true and R is correct explanation of A
- Both A and R are true but R is not correct explanation of A
- A is true R is false
- A is false R is true

**Options :**

- a.
- b.
- c.
- d.

**Question Number : 52 Question Id : 1702 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33**

The standard one colour unit is equivalent to

- 1 mg/l cobalt chloride
- 1 mg/l platinum cobalt
- 1 mg/l platinum chloride
- 1 mg/l cobalt sulphate

**Options :**

- (a)
- (b)
- (c)
- (d)

**Question Number : 53 Question Id : 1703 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33**

The fluoride concentration less than prescribed permissible limit may cause

- dental cavities
- spotting in teeth
- discoloration of teeth
- fluorosis

**Options :**

- (a)
- (b)
- (c)
- (d)

**Question Number : 54 Question Id : 1704 Question Type : MCQ Option Shuffling : No**

Correct : 1.0 Wrong : 0.33

The ultrafine particles present in surface water are removed through

- (a) coagulation and flocculation
- (b) filtration
- (c) sedimentation
- (d) reverse osmosis

Options :

- 1. ✘ (a)
- 2. ✔ (b)
- 3. ✘ (c)
- 4. ✘ (d)

Question Number : 55 Question Id : 1705 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The pollutant lead present in the atmosphere may cause

- (a) respiratory disease
- (b) asthmatic disease
- (c) cardiovascular disease
- (d) pulmonary edema

Options :

- 1. ✘ (a)
- 2. ✘ (b)
- 3. ✔ (c)
- 4. ✘ (d)

Question Number : 56 Question Id : 1706 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A continuous exposure of intense noise for longer duration may cause irreversible damage to the nerves and the inner ear resulting loss of sensitivity at higher frequencies which is called

- (a) acoustic trauma
- (b) annoyance
- (c) temporary threshold shift
- (d) permanent threshold shift

Options :

- 1. ✘ (a)

2. ✘ (b)

3. ✘ (c)

4. ✔ (d)

Question Number : 57 Question Id : 1707 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The presence of CO<sub>2</sub> may reduce the pH of rain water up to

(a) 5.6

(b) 4.0

(c) 6.5

(d) 6.0

Options :

1. ✔ (a)

2. ✘ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 58 Question Id : 1708 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Plotter is a(an) \_\_\_\_\_

(A) Input device

(B) Output device

(C) Storage device

(D) Both input and output device

Options :

1. ✘ (A)

2. ✔ (B)

3. ✘ (C)

4. ✘ (D)

Question Number : 59 Question Id : 1709 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

DVD stands for \_\_\_\_\_

(A) Digital Video Disk

(B) Digital Variable Disk

(C) Digital Versatile Disk

(D) Digital Versatile Data

Options :

1. ✘ (A)

2. ✘ (B)

3. ✔ (C)

4. ✘ (D)

Question Number : 60 Question Id : 1710 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following can be treated as both input as well as output device?

(A) Mouse

(B) Printer

(C) Memory

(D) Plotter

Options :

1. ✘ (A)

2. ✘ (B)

3. ✔ (C)

4. ✘ (D)

Question Number : 61 Question Id : 1711 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

UTF-32 is a(an) \_\_\_\_\_

(A) 16-bit fixed-width encoding

(B) 16-bit variable-width encoding

(C) 32-bit variable-width encoding

(D) 32-bit fixed-width encoding

Options :

1. ✘ (A)

2. ✘ (B)

3. ✘ (C)

4. ✔ (D)

Question Number : 62 Question Id : 1712 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The octal representation of  $(A0E)_{16}$  is \_\_\_\_\_

(A)  $(5016)_8$

(B)  $(5061)_8$

(C)  $(1650)_8$

(D)  $(5610)_8$

Options :

1. ✔ (A)

2. ✘ (B)

3. ✘ (C)

4. ✘ (D)

Question Number : 63 Question Id : 1713 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Considering X and Y as binary variables, the Boolean expression  $X(X + Y')$  is equivalent to

(A) X

(B) 1

(C) 0

(D) Y

Options :

1. ✔ (A)



- 2. ✘ (B)
- 3. ✘ (C)
- 4. ✘ (D)

Question Number : 64 Question Id : 1714 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The 2's complement of the binary number  $(00001111)_2$  is

- (A)  $(00001111)_2$
- (B)  $(11110000)_2$
- (C)  $(10101010)_2$
- (D)  $(11110001)_2$

Options :

- 1. ✘ (A)
- 2. ✘ (B)
- 3. ✘ (C)
- 4. ✔ (D)

Question Number : 65 Question Id : 1715 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following categories of viruses normally infect executable code, such as .com and .exe files?

- (A) File infector viruses
- (B) Boot sector viruses
- (C) Master boot record viruses
- (D) Macro viruses

Options :

- 1. ✔ (A)
- 2. ✘ (B)
- 3. ✘ (C)
- 4. ✘ (D)

Question Number : 66 Question Id : 1716 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In class 'C' IP addresses, number of network ID bits used to identify the class is \_\_\_\_\_

- (A) 0
- (B) 1
- (C) 2
- (D) 3

Options :

- 1. ✘ (A)
- 2. ✘ (B)
- 3. ✘ (C)
- 4. ✔ (D)

Question Number : 67 Question Id : 1717 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is a general-purpose network?

(A) Storage Area Network (SAN)

(B) Local Area Network (LAN)

(C) Enterprise Private Network (EPN)

(D) Virtual Private Network (VPN)

Options :

1. ✘ (A)

2. ✔ (B)

3. ✘ (C)

4. ✘ (D)

Question Number : 68 Question Id : 1718 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The term “plan” in orthographic projection refers to:

(a) top view, (b) front view, (c) side view, (d) sectioned view.

Options :

1. ✔ (a)

2. ✘ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 69 Question Id : 1719 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A thread profile having included  $55^\circ$  angle is:

(a) V thread, (b) Acme thread, (c) Square thread, (d) Whitworth thread.

Options :

1. ✘ (a)

2. ✘ (b)

3. ✘ (c)

4. ✔ (d)

Question Number : 70 Question Id : 1720 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The common map of “road network” is drawn to scale with RF:

(a) Less than one, (b) Greater than one,

(c) Equal to one, (d) RF is not relevant for such maps.

Options :

1. ✔ (a)

2. ✘ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 71 Question Id : 1721 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The eccentricity of a hyperbola is equal to:

- (a) less than One, (b) greater than One,
- (c) One, (d) There is no term as eccentricity for a parabola.

Options :

- 1. ✘ (a)
- 2. ✔ (b)
- 3. ✘ (c)
- 4. ✘ (d)

Question Number : 72 Question Id : 1722 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angle between the vertical iso-axis and rest of the two iso-axis are:

- (a)  $15^\circ$  each, (b)  $90^\circ$  each, (c)  $30^\circ$  each, (d)  $60^\circ$  each.

Options :

- 1. ✘ (a)
- 2. ✘ (b)
- 3. ✔ (c)
- 4. ✘ (d)

Question Number : 73 Question Id : 1723 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An object of mass  $m$  at rest is acted upon by a force. When the velocity -time graph of the object is plotted ( with velocity on  $y$ -axis and time on  $x$ -axis), we get a straight line passing through origin and inclined to  $x$ -axis. If the force (on  $y$ -axis) versus time (on  $x$ -axis ) graph is plotted, the graph is a straight line

- (a) passing through origin and inclined to  $x$ -axis
- (b) passing through origin and coinciding with  $x$ -axis
- (c) parallel to  $x$ -axis
- (d) parallel to  $y$ -axis.

Options :

- 1. ✘ (a)
- 2. ✘ (b)
- 3. ✔ (c)
- 4. ✘ (d)

Question Number : 74 Question Id : 1724 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The acceleration due to gravity,  $g$ , is

- (a) independent of the mass of the earth
- (b) inversely proportional to the radius of the earth
- (c) proportional to the mass of the earth and inversely proportional to the square of the radius of the earth
- (d) same at the poles and the equator .

Options :

- 1. ✘ (a)
- 2. ✘ (b)
- 3. ✔ (c)
- 4. ✘ (d)

Question Number : 75 Question Id : 1725 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Rohan (mass 40 kg) and Sohan (mass 60 kg) climb the stairs of their school building to reach the first floor in 40 s and 60 s, respectively. Let  $P_1$  and  $P_2$  be the power delivered in this task by Rohan and Sohan, respectively . Which one of the following is correct?

- (a)  $P_1 = P_2$
- (b)  $P_1 > P_2$
- (c)  $P_1 < P_2$
- (d)  $P_1 = 2 P_2$  .

Options :

- 1. ✔ (a)
- 2. ✘ (b)
- 3. ✘ (c)
- 4. ✘ (d)

Question Number : 76 Question Id : 1726 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The loudness or softness of a sound is determined basically by its

- (a) amplitude
- (b) frequency
- (c) speed
- (d) speed and frequency both .

Options :

- 1. ✔ (a)
- 2. ✘ (b)

3. ✘ (c)

4. ✘ (d)

Question Number : 77 Question Id : 1727 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A ray of light travelling in air is incident on a glass slab. Part of it is reflected and part is refracted. Let  $i$ ,  $r$  and  $s$  be the angle of incidence, angle of reflection and angle of refraction. Which one of the following is correct?

(a)  $i = r = s$

(b)  $i \neq r \neq s$

(c)  $i = r$  and  $s < i$

(d)  $i = r$  and  $s > i$

Options :

1. ✘ (a)

2. ✘ (b)

3. ✔ (c)

4. ✘ (d)

Question Number : 78 Question Id : 1728 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A conducting wire has length  $l$  and area of cross-section  $A$ . The resistivity of its material is  $\rho$  and its resistance is  $R$ . It is connected in series with another wire of the same dimensions but of a resistivity  $2\rho$ . The net resistance of the combination is

(a)  $R$

(b)  $2R$

(c)  $3R$

(d)  $2R/3$

Options :

1. ✘ (a)

2. ✘ (b)

3. ✔ (c)

4. ✘ (d)

Question Number : 79 Question Id : 1729 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following changes will decrease the vapour pressure of water contained in a sealed tube?

a) Increasing the quantity of water

b) decreasing the quantity of water

c) Decreasing the temperature of water

d) Decreasing the volume of the vessel

Options :

1. ✘ a)

2. ✗ b)
3. ✓ c)
4. ✗ d)

Question Number : 80 Question Id : 1730 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following reaction represents the process of calcination?

- a)  $\text{Cu}_2\text{S} + \text{O}_2 \rightarrow \text{Cu}_2\text{O} + \text{SO}_2$     b)  $\text{ZnCO}_3 (\text{s}) \rightarrow \text{ZnO}(\text{s}) + \text{CO}_2$
- c)  $\text{ZnO} (\text{s}) + \text{C}(\text{s}) \rightarrow \text{Zn}(\text{s}) + \text{CO}(\text{g})$                   d)  $2\text{ZnS} + 3\text{O}_2 \rightarrow 2\text{ZnO} + 2\text{SO}_2(\text{g})$

Options :

1. ✗ a)
2. ✓ b)
3. ✗ c)
4. ✗ d)

Question Number : 81 Question Id : 1731 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following has only covalent bonds between the atoms?

- a) KCl    b) HCHO
- c) Na<sub>2</sub>O    d) MgO

Options :

1. ✗ a)
2. ✓ b)
3. ✗ c)
4. ✗ d)

Question Number : 82 Question Id : 1732 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

An acid reacts with a base to form salt and water. What type of reaction is this?

- A) Combination    b) Decomposition
- c) Displacement    d) Double displacement

Options :

1. ✗ a)
2. ✗ b)
3. ✗ c)
4. ✓ d)

Question Number : 83 Question Id : 1733 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33



An acid produces a gas 'X' on reaction with metal carbonates and hydrogen carbonates separately. What is 'X' in these reactions?

- a) Carbon dioxide
- b) Carbon monoxide
- c) Sulphur dioxide
- d) Hydrogen

Options :

- 1. ✓ a)
- 2. ✗ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 84 Question Id : 1734 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following statements is correct about Mendeleev's periodic table of elements?

- a) It has 18 groups.
- b) It had some gaps for the new elements to be discovered later.
- c) It has the elements arranged in order of their increasing atomic numbers.
- d) The table initially contained 112 elements.

Options :

- 1. ✗ a)
- 2. ✓ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 85 Question Id : 1735 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following functions is not performed by the kidneys?

- a) Removal of Urea from the body
- b) Regulating the water content of the body
- c) Reabsorbing useful substances from the filtrate back into blood
- d) Excreting excess hormones present in the blood

Options :

- 1. ✗ a)
- 2. ✗ b)
- 3. ✗ c)
- 4. ✓ d)



Question Number : 86 Question Id : 1736 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which is the correct evolutionary sequence of vertebrates?

- a) Fish, Amphibians ,Birds ,Reptiles, Mammals
- b) Amphibians, Fish ,Reptiles, Birds, Mammals
- c) Fish, Amphibians , Reptiles ,Birds, Mammals
- d) Mammals, Birds ,Reptiles ,Fish, Amphibians

Options :

- 1. ✘ a)
- 2. ✘ b)
- 3. ✔ c)
- 4. ✘ d)

Question Number : 87 Question Id : 1737 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The organs of plants that carry out Photosynthesis are

- a) all kinds of leaves
- b) green leaves only
- c) green leaves in any plant and stem in cacti
- d) roots and branches

Options :

- 1. ✘ a)
- 2. ✘ b)
- 3. ✔ c)
- 4. ✘ d)

Question Number : 88 Question Id : 1738 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

What sperm is to egg

- a) stamen is to carpel
- b) stigma is to ovary
- c) pollen is to style
- d) pollen grain is to ovule

Options :

- 1. ✘ a)
- 2. ✘ b)
- 3. ✘ c)

4. ✓ d)

Question Number : 89 Question Id : 1739 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

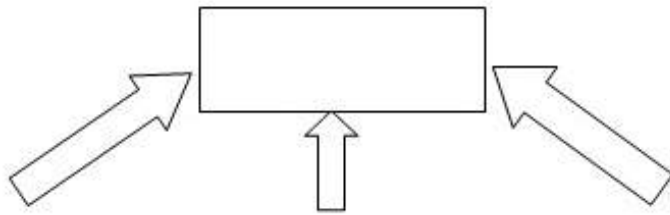
The disease Thalassemia wherein a person is unable to make Hemoglobin is a

- a) Life style disease
- b) Infectious disease
- c) Genetic disorder
- d) Metabolic disorder

Options :

- 1. ✗ a)
- 2. ✗ b)
- 3. ✓ c)
- 4. ✗ d)

Question Number : 90 Question Id : 1740 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33



Combustion

Respiration by  
Living beings

Decomposition of  
Plant & Animal remains

In the above diagram name of which gas would you write in the box.

- a) Oxygen
- b) Carbon-di-oxide
- c) Nitrogen
- d) Ammonia

Options :

- 1. ✗ a)
- 2. ✓ b)
- 3. ✗ c)
- 4. ✗ d)

Question Number : 91 Question Id : 1741 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The HCF and LCM of first two prime numbers is

- a. 1,2
- b. 1,3
- c. 2,3
- d. 1,6

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✔ d.

Question Number : 92 Question Id : 1742 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The least number which when divided by 10 and 16 leaving remainder 6 in each case is

- a. 36
- b. 86
- c. 156
- d. 164

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 93 Question Id : 1743 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $a:b=3:7$  and  $a+b=80$ , then a is equal to

- a. 24
- b. 56
- c. 30
- d. 60

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 94 Question Id : 1744 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 8,3x,6,27 are in proportion, then x is equal to

- a. 6
- b. 9
- c. 12
- d. 15

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✔ c.
- 4. ✘ d.

Question Number : 95 Question Id : 1745 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 8 % of a number is 24, then number is

- a. 200
- b. 300
- c. 350
- d. 400

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 96 Question Id : 1746 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The simple interest on ₹ 720 for 5 years, at 6% per annum is

- a. ₹ 216
- b. ₹ 232
- c. ₹ 250
- d. ₹ 300

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 97 Question Id : 1747 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The Compound interest on ₹ 8000 for  $\frac{3}{2}$  years at 20% per annum compounded half yearly

is

- a. ₹10648
- b. ₹3648
- c. ₹2648
- d. ₹2400

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✔ c.
- 4. ✘ d.

Question Number : 98 Question Id : 1748 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The cost price of an article is ₹ 550. If it is sold at profit of 10% , then selling price of article is

- a. ₹495
- b. ₹610
- c. ₹625
- d. ₹.605

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✔ d.

Question Number : 99 Question Id : 1749 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The selling price of an article is ₹ 608. If it was sold at a loss of 5% ,the cost price of the article was

- a. ₹620
- b. ₹640
- c. ₹650
- d. ₹680

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 100 Question Id : 1750 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A shopkeeper mixes 20 kg of wheat which cost him ₹ 16/kg with 10 kg of wheat which cost him ₹ 12/kg. He sells the mixture at ₹ 17/kg. His gain is

- a. ₹ 50
- b. ₹ 60
- c. ₹ 70
- d. ₹ 80

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✔ c.
- 4. ✘ d.

Question Number : 101 Question Id : 1751 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In two vessels A and B, the milk and water are in the ratio 5:4 and 3:5 respectively.

The ratio in which these are mixed to obtain new mixture which contains half milk and half water is

- a. 9:4
- b. 4:9
- c. 4:3
- d. 3:4

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 102 Question Id : 1752 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The speed of a car is 54 km/h. The time taken by it in seconds, to cover a distance of 240 m is

- a. 12
- b. 15
- c. 16
- d. 18

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✔ c.
- 4. ✘ d.

Question Number : 103 Question Id : 1753 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A train is moving at a speed of 72 km/h. In 40 seconds it will cover a distance of

- a. 900 m
- b. 800 m
- c. 600 m
- d. 550 m

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 104 Question Id : 1754 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

B can do a piece of work in 30 days. If A and B together can do same work in 12 days, then, the number of days required for A alone to do the same work is

- a. 20
- b. 25
- c. 30
- d. 32

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 105 Question Id : 1755 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

P and Q can do a piece work in 20 days, Q and R in 15 days and R and P in 12 days.

The number of days required for P to do same work is

- a. 20
- b. 30
- c. 40
- d. 60

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 106 Question Id : 1756 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33



The average of first seven whole numbers is

- a. 8
- b. 7
- c. 6
- d. 5

Options :

- 1.  a.
- 2.  b.
- 3.  c.
- 4.  d.

For the above question, User had specified 'ignore' during keys upload.

Question Number : 107 Question Id : 1757 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average 16 observations is 25 and average of 24 observations is 30. The average of all 40 observations is

- a. 26
- b. 27
- c. 27.5
- d. 28

Options :

- 1.  a.
- 2.  b.
- 3.  c.
- 4.  d.

Question Number : 108 Question Id : 1758 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sum of first 21 terms of the AP  $-20, -18, -16, \dots$ , is

- a. 0
- b. -4
- c. -8
- d. 4

Options :

- 1.  a.
- 2.  b.
- 3.  c.
- 4.  d.

Question Number : 109 Question Id : 1759 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sum of infinite GP is 6. If common ratio is  $\frac{1}{3}$ , the first term is

- a. 6
- b. 4
- c. 3
- d. 2

Options :

- 1. ✘ a.
- 2. ✔ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 110 Question Id : 1760 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

From the top of a tower, the angle of depression of a car on the ground is  $60^\circ$ . If height of the tower is 40m, the distance of the car from the base of tower is

- a.  $20\sqrt{3}$  m
- b.  $30\sqrt{3}$  m
- c.  $40\sqrt{3}$  m
- d.  $\frac{40\sqrt{3}}{3}$  m

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✔ d.

Question Number : 111 Question Id : 1761 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angle of elevation of top of a tower, 30m high, from two points on same side of the tower are respectively  $30^\circ$  and  $45^\circ$ . If the point and tower are in same line, the distance between two points is

- a.  $15(3+\sqrt{3})$  m
- b.  $15(3-\sqrt{3})$  m
- c.  $30(\sqrt{3} + 1)$  m
- d.  $30(\sqrt{3} - 1)$  m

Options :

- 1. ✘ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✔ d.

Question Number : 112 Question Id : 1762 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $(x+2)$  is a factor of  $5x^3-3x^2+ax+2$ , then  $a$  is equal to

- a. -25
- b. -20
- c. 15
- d. 27

Options :

- 1.  a.
- 2.  b.
- 3.  c.
- 4.  d.

Question Number : 113 Question Id : 1763 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

One of the factor of  $(5x-7y)^3 - (3x-4y)^3$  is

- a.  $(2x-3y)$
- b.  $(2x-11y)$
- c.  $(8x-3y)$
- d.  $(2x+3y)$

Options :

- 1.  a.
- 2.  b.
- 3.  c.
- 4.  d.

Question Number : 114 Question Id : 1764 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The value of  $k$  for which  $kx^2+5x+1=0$ , has equal roots is

- a.  $\frac{5}{4}$
- b.  $-\frac{5}{4}$
- c.  $\frac{25}{4}$
- d.  $-\frac{25}{4}$

Options :

- 1.  a.
- 2.  b.
- 3.  c.

4. ✘ d.

Question Number : 115 Question Id : 1765 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sum of squares of the roots of the equations  $x^2-7x+6=0$  is

- a. 37
- b. 35
- c. 29
- d. 27

Options :

- 1. ✔ a.
- 2. ✘ b.
- 3. ✘ c.
- 4. ✘ d.

Question Number : 116 Question Id : 1766 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Consider the following statements and select the difference between Chaitya and Vihara

- 1. Chaitya is a place of worship whereas Vihara is a living place for Buddhist saints
- 2. Vihara is a place of worship whereas Chaitya is a living place for Buddhist saints
- 3. Chaitya and Vihara both can be used as a living place
- 4. There is not much difference between the two

Options :

- 1. ✔ 1
- 2. ✘ 2
- 3. ✘ 3
- 4. ✘ 4

Question Number : 117 Question Id : 1767 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The world famous Takht-i-Taus (the Peacock Throne) was kept in which of the following Mughal buildings?

- 1. The Diwan-i-Khas at Fatehpur Sikri
- 2. Agra Fort
- 3. The Rang Mahal at the Red Fort at Delhi
- 4. The Diwan-i-Aam at the Red Fort at Delhi

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 118 Question Id : 1768 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

With reference to the colonial rule in India, consider the following events

1. Morley-Minto Reforms Act
2. Transfer of capital from Calcutta to Delhi
3. First World War
4. Lucknow Pact

The correct chronological order of these events is

1. 2-1-3-4
2. 1-2-3-4
3. 2-1-4-3
4. 1-2-4-3

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 119 Question Id : 1769 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The latitudes that pass through Sikkim also pass through

1. Rajasthan
2. Jammu and Kashmir
3. Himachal Pradesh
4. Punjab

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 120 Question Id : 1770 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

River Indus originates from

1. Hindukush Range
2. Himalayan Range
3. Karakoram Range
4. Kailash Range

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 121 Question Id : 1771 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Currently half of the world's population lives in just six countries. Identify them from the following

1. India,China,Bangladesh,Pakistan,Brazil,Indonesia
2. India,China,Bangladesh,South Africa,Pakistan,Indonesia
3. China,India,United States,Indonesia,Brazil,Pakistan
4. China,India,Bangladesh,United States,Pakistan,Indonesia

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 122 Question Id : 1772 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If a ship moves from fresh water into sea water, it will

1. sink completely
2. sink a little bit
3. rise a little higher
4. remain unaffected

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3

4. ✖ 4

Question Number : 123 Question Id : 1773 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The focal length of a convex lens is

1. same for all the colours
2. shorter for blue light than for red
3. shorter for red light than for blue
4. maximum for yellow light

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 124 Question Id : 1774 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is not correctly matched

1. Decibel-unit of sound
2. Horse power-Unit of power
3. Nautical mile-unit of distance
4. Celcius-unit of heat

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 125 Question Id : 1775 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

For distribution of powers between the union and the states, the constitution of india introduce three lists. Which two of the following Articles govern the distribution of power;

1. Articles 3 and 4
2. Articles 56 and 57
3. Articles 141 and 142
4. Articles 245 and 246

Options :



1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 126 Question Id : 1776 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following can a court issue for enforcement of Fundamental Rights?

1. A decree
2. An ordinance
3. A Writ
4. A notification

Options :

1. ✘ 1
2. ✘ 2
3. ✔ 3
4. ✘ 4

Question Number : 127 Question Id : 1777 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

'Twenty Point Programme' (Bees-sutri Karyakrama) was first launched in the Year

1. 1969
2. 1975
3. 1977
4. 1982

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 128 Question Id : 1778 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Among other things, which one of the following was the purpose for which the Deepak Parekh Committee was constituted

1. To study the current socio-economic conditions of certain minority communities
2. To suggest measures for financing the development of infrastructure
3. To frame a policy on the production of genetically modified organisms
4. To suggest measures to reduce the fiscal deficit in the Union Budget

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 129 Question Id : 1779 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Who among the following developed the concept of Human Development Index

1. Amartya Sen
2. A.S.Kadir
3. Alva Myrdal
4. Mehboob-ul-Haq

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 130 Question Id : 1780 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Ryder cup is related with which sport

1. Football
2. Golf
3. Badminton
4. Cricket

Options :

1. ✘ 1
2. ✔ 2
3. ✘ 3
4. ✘ 4

Question Number : 131 Question Id : 1781 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The Badminton player who won the Malaysian open on April 5 , is

1. Chen Long
2. Lin Dan
3. Carolina Marin
4. Li- xuerui

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

For the above question, User had specified 'ignore' during keys upload.

Question Number : 132 Question Id : 1782 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Dog bite can cause rabies. Which among the following other animals can also cause rabies

1. Donkey
2. Bat
3. Horse
4. Crocodile

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 133 Question Id : 1783 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A 'flower bud' which is used as a spice is obtained from

1. Cinnamon
2. Cardamon
3. Clove
4. Coriander

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3

4. ✘ 4

Question Number : 134 Question Id : 1784 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The gas used for artificial ripening of fruit is

1. Ether
2. Ammonia
3. Acetylene
4. Ethylene

Options :

1. ✘ 1
2. ✘ 2
3. ✘ 3
4. ✔ 4

Question Number : 135 Question Id : 1785 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

H<sub>2</sub>O is liquid H<sub>2</sub>S is a gas because

1. Oxygen forms stronger hydrogen bond than sulphur.
2. Oxygen is less electromagnetic than that of sulphur.
3. Atomic radius of oxygen is less than that of sulphur.
4. Atomic radius of oxygen is greater than that of sulphur.

Options :

1. ✔ 1
2. ✘ 2
3. ✘ 3
4. ✘ 4

Question Number : 136 Question Id : 1786 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In reaction between HCl and O<sub>2</sub> is given by



The equivalent weight of HCl equal to

1. Its molecular weight
2. Half of its molecular weight
3. Twice of its molecular weight
4. Four times of its molecular weight

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 137 Question Id : 1787 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which has the highest electron affinity

1. F
2. Cl
3. Br
4. I

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 138 Question Id : 1788 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The country, which has decided to lift ban on rice import from India in May 2015, is

1. USA
2. China
3. Brazil
4. Iran

Options :

1. ✗ 1

2. ✘ 2

3. ✘ 3

4. ✔ 4

Question Number : 139 Question Id : 1789 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

LOK SABHA on MAY7 cleared a bill to lower the age of Juveniles from 18 years to

1. 16 years

2. 15 years

3. 14 years

4. 17 years

Options :

1. ✔ 1

2. ✘ 2

3. ✘ 3

4. ✘ 4

Question Number : 140 Question Id : 1790 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Who has been nominated by India to be the first president of \$100 billion BRICS bank being set up by the five big emerging economies in may 2015

1. M.V. Tanksale

2. K.V. Kamath

3. O.P. Bhatt

4. Shikha Sharma

Options :

1. ✘ 1

2. ✔ 2

3. ✘ 3

4. ✘ 4

Question Number : 141 Question Id : 1791 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Pointing to a lady, Sunil said, "She is the wife of my father's wife's brother." How is the lady related to Sunil?

1) Aunt

2) Grandmother

3) Niece

4) Cousin

Options :

- 1. ✓ 1)
- 2. ✗ 2)
- 3. ✗ 3)
- 4. ✗ 4)

Question Number : 142 Question Id : 1792 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The first two numbers on the left of the sign '::' are related in a certain way. The same relationship holds for the second pair of numbers on the right side of the sign '::' of which one is missing. Find the missing one from the alternatives.

8 : 65 :: 11 : ?

- 1) 91                      2) 107                      3) 122                      4) 145

Options :

- 1. ✗ 1)
- 2. ✗ 2)
- 3. ✓ 3)
- 4. ✗ 4)

Question Number : 143 Question Id : 1793 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

'Dice' is related to 'Cube' in the same way as 'Ball' is related to:

- 1) Circle                      2) Sphere                      3) Shape                      4) Roundness

Options :

- 1. ✗ 1)
- 2. ✓ 2)
- 3. ✗ 3)
- 4. ✗ 4)

Question Number : 144 Question Id : 1794 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33



Eight friends A, B, C, D, E, F, G and H are sitting in a circle facing the center. C is sitting between H and F. A is not sitting opposite H. E is third to the left of C. B is sitting next to F and opposite D.

Which of the following statement is not correct?

- 1) G is between A and B      2) H is third to the left of B  
3) C is sitting opposite A      4) G is sitting second to the left of D

Options :

1. ✘ 1)  
2. ✘ 2)  
3. ✘ 3)  
4. ✔ 4)

Question Number : 145 Question Id : 1795 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Arrange the following words in a meaningful logical sequence and choose the appropriate number sequence from the alternatives.

1. Crore    2. Thousand    3. Million    4. Trillion    5. Hundred    6. Billion
- 1) 4, 6, 3, 1, 2, 5  
2) 5, 2, 3, 1, 4, 6  
3) 5, 2, 3, 1, 6, 4  
4) 5, 2, 1, 3, 6, 4,

Options :

1. ✘ 1)  
2. ✘ 2)  
3. ✔ 3)  
4. ✘ 4)

Question Number : 146 Question Id : 1796 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

One term in the following number series is wrong. Find out the wrong term.

130, 66, 32, 18, 10, 6

- 1) 32    2) 66    3) 10    4) 18

Options :

- 1. ✓ 1)
- 2. ✗ 2)
- 3. ✗ 3)
- 4. ✗ 4)

Question Number : 147 Question Id : 1797 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

If DEAF = 7349 and KITE = 5283, then DIET would be coded as:

- 1) 7283
- 2) 7238
- 3) 3728
- 4) 7823

Options :

- 1. ✗ 1)
- 2. ✓ 2)
- 3. ✗ 3)
- 4. ✗ 4)

Question Number : 148 Question Id : 1798 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

If 'THRIVE' is coded as 'DUHQGS', then 'STRONG' would be coded as:

- 1) FMNSQP
- 2) RSQNMF
- 3) HOPSUT
- 4) FMNQSR

Options :

- 1. ✗ 1)
- 2. ✗ 2)
- 3. ✗ 3)
- 4. ✓ 4)

Question Number : 149 Question Id : 1799 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

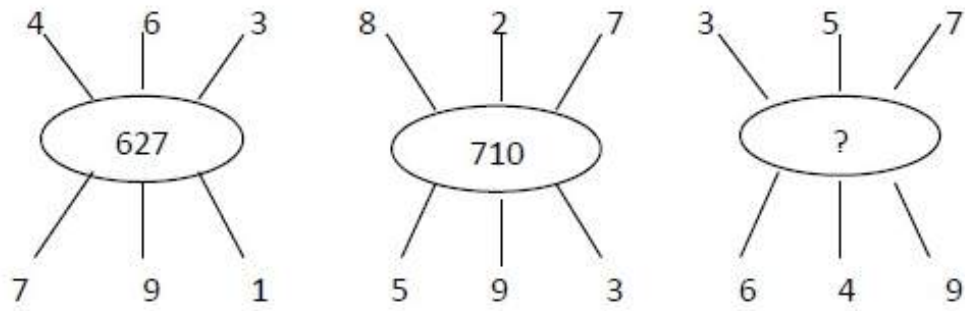
One evening before sunset, Rohan and Rahul were talking to each other face to face. If Rahul's shadow was exactly to his left, which direction was Rohan facing?

- 1) South
- 2) North
- 3) East
- 4) West

Options :

- 1. ✗ 1)
- 2. ✓ 2)
- 3. ✗ 3)
- 4. ✗ 4)

The numbers in the following figures follow a pattern. Which number would replace the question mark?



- 1) 296      2) 415      3) 503      4) 527

Options :

1. ✘ 1)  
2. ✘ 2)  
3. ✔ 3)  
4. ✘ 4)