# PART – I GENERAL INTELLIGENCE

**Directions:** In Question Nos. 1 to 7, find the odd number / letters / figure / number pair from the given alternatives.

- 1. (A) Respiration
  - (B) Digestion
  - (C) Disease
  - (D) Blood pressure
- 2. (A) AZBY
  - (B) CXDW
  - (C) GTHR
  - (D) EVFU
- 3. (A) BCDF
  - (B) AEIO
  - (C) GHTK
  - (D) RNWX
- 4. (A) 9
- (B) 28
- (C) 126
- (D) 64
- 5. (A) 24-81
  - (B) 33-91
  - (C) 28-44
  - (D) 20-11

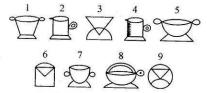
- 6. (A) (B) (C) (D)
- 7. (A) (B) (C) (D)

**Directions:** (Question Nos. 8-9) Which one of the given responses can be added to all the given letters to make meaningful words?

- 8. (1) Character
  - (2) Story
  - (3) Editing
  - (4) Plot
  - (5) Publishing
  - (A) 1, 2, 3, 4, 5
  - (B) 4, 1, 2, 5, 3
  - (C) · 1, 4, 3, 2, 5
  - (D) 4, 1, 2, 3, 5
- 9. (1) Yarn
  - (2) Plant
  - (3) Saree
  - (4) Cotton
  - (5) Cloth
  - (A) 2, 1, 4, 5, 3
  - (B) 2, 4, 5, 1, 3
  - (C) 2, 4, 1, 5, 3
  - (D) 1, 2, 3, 5, 4

**Directions:** (Question No. 10) Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

- **10.** \_ab\_a\_bab\_\_bbabb\_
  - (A) bbbbaa
  - (B) ababbb
  - (C) aabaab
  - (D) bbaaba
- 11. A series of figures is given which can be grouped into classes. From the responses, select the groups into which the figures can be classified:

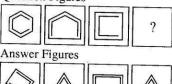


- (A) 124 | 369 | 578
- (B) 157 | 248 | 369
- (C) 136 | 257 | 149
- (D) 369 257 142

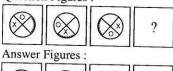
**Directions:** (Question Nos. 12 to 15). A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

- 12. NOM, OPN, PQO, ?
  - (A) RQP
  - (B) OQP
  - (C) Q R P
  - (D) RPO

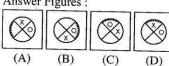
- **13.** 62, 57, 68, 52, 74, 47, 80, <u>?</u>, <u>?</u>
  - (A) 41,83
  - (B) 42, 86
  - (C) 43, 85
  - (D) 46, 88
- 14. Question Figures



15. Question Figures:



(B)

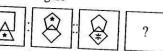


**Directions:** In Question Nos. 16 to 23, select the related letters / word / number / figure from the given alternatives.

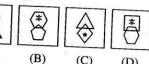
- 16. den: lion::coop:?
  - (A) duck
  - (B) swan
  - (C) hen
  - (D) deer

- 17. Anarchy: Lawlessness:: Anaemia:?
  - (A) Fearlessness
  - (B) Colourlessness
  - (C) Shapelessness
  - (D) Bloodlessness
- 18. Optician: Eyes:: Geriatric:?
  - (A) Young
  - (B) Needy
  - (C) Old Age
  - (D) New Born
- 19. BYDW: FUHS:: AZCX:?
  - (A) EVGT
  - (B) FVGT
  - (C) FVHT
  - (D) EVHT
- **20.** BOQD : ERTG : : ANPC : ?
  - (A) DQSF
  - (B) FSHU
  - (C) SHFU
  - (D) DSQF

- 21. 3:28::5:?
  - (A) 179
- (B) 126
- (C) 124
- (D) 125
- - (A) 89
  - (B) 96
  - (C) 225
  - (D) 209
- 23. Question Figure



Answer Figures



(C)

(A)

(D)

- 24. In a row of boys, Sachin is 21st from the left and Rahul is 12th from right. On interchanging their places, Rahul becomes 17<sup>th</sup> from right. How many boys are there in a row?
  - (A) 36
  - (B) 38
  - (C) 37
  - (D) 35

- 25. A after arriving at a place of appointment on Sunday, found that he was 3 days earlier than 'B' who was 2 days late. If A had reached there on the following Thursday, how many days early or late would A have been?
  - (A) 2 days early
  - (B) 2 days late
  - (C) 3 days late
  - (D) 4 days early
- 26. In a group of 26 persons, 15 like tea. while 18 like coffee, there is none who dislikes both. The number of persons who like both tea and coffee is
  - (A) 9
  - (B) 7
  - (C) 5
  - (D) 3

**Directions**: In Question No. 27 from the given alternatives, select the word which cannot be formed using the letters of the given word.

- 27. ENGINEERING
  - (A) GINGER
  - (B) ENGINE
  - (C) NEARER
  - (D) RING

Directions: In Question Nos. 28 to 30, select the missing number from the given alternatives.

- 28. 7 8 4
  - 5 6 2
  - 35 48 ?
  - 47 62 14
  - (A) 5
  - (B) 6
  - (C) 7
  - (D) 8

29. 5 84 8





- (A) 26
- (B) 24
- (C) 42
- (D) 36
- 30. 32 (40) 12
  - 51 (36) 33
  - 67 (?) 55
  - (A) 24
  - (B) 20
  - (C) 18
  - (D) 12

- 31. If 3 \* 5 \* 4 = 6, 2 \* 7 \* 5 = 7, 1 \* 3 \* 8= 6, then what will be the value of 1 \* 3 \* 6 ?
  - (A) 1
  - (B) 5
  - (C) 0
  - (D) 8
- 32. If stands for addition, + for division, + for multiplication and × for subtraction, then which of the following is correct?
  - (A)  $6 \times 3 + 9 \div 4 2 = 15$
  - (B)  $6 \div 3 9 \times 4 + 2 = 10$
  - (C)  $6 + 3 \div 9 4 \times 2 = 20$
  - (D)  $6 3 \times 9 + 4 \div 2 = 17$
- 33. Among the four answer figures, which one can be formed from the cut out pieces given below in the question figure?





- (A)
- (B)
- (C)

34. Directions: Four views of a cube are given below. Study each view and answer the question given below them.

Question Figures



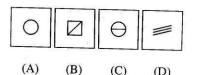
1

2

Question: In Figure 1, which symbol is below the square ?

Answer Figures

given question figure?



35. How many triangles are there in the

(C)

(D)



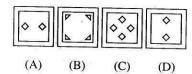
- (B) 8
- (C) 12
- (D) 14

**Directions:** (Question No. 36) A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

36. Question Figures



Answer Figures

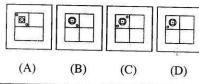


37. A transparent sheet with a pattern is given. How the pattern would appear when the sheet is folded at the dotted lines?

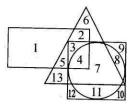
Question Figure



Answer Figures



Directions: (Question No. 38) In the following diagram, rectangle represents Hindi Announcers, circle English Announcers, Square French Announcers and triangle represents German Announcers. Study the diagram.



- **38.** Which area represents those announcers who can present programmes in Hindi, French and German only?
  - (A) 1
  - (B) 2
  - (C) 3
  - (D) 4
- 39. Which of the following correctly illustrate the relationship among the classes:

Carrot, Food, Vegetable

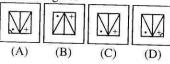
- (A) (O O)
- (B) Ø
- (C)
- (D) (O)

**Directions :** In Question Nos. **40** to **41**, which answer figure will complete the pattern in the question figure ?

40. Question Figure



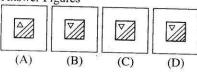
Answer Figures



41. Question Figure



Answer Figures

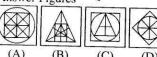


**Directions:** In Question Nos. **42** to **43** from the given answer figures, select the one in which the question figure is hidden / embedded.

42. Question Figure



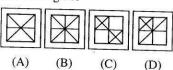
Answer Figures



43. Question Figure



Answer Figures



44. If the letters given below are arranged to form a sensible word, what will be the last letter of the word?

LIBNARJ

- (A) R
- (B) L
- (C) N
- (D) J
- 45. Sanjay is standing facing south. He walks 10 km straight, turns right and walks another 10 km straight, turns left and walks 10 km straight and, finally turns left and walks 5 km to reach a hotel. Which direction is he facing now?
  - (A) North
  - (B) South
  - (C) East
  - (D) West

- 46. A and B start together from one point. They walk 10 km towards north. A turns left and covers 5 km whereas B turns right and covers 3 km. A turns left again and covers 15 km whereas B turns right and covers 15 km. How far is A from B?
  - (A) 18 km
  - (B) 10 km
  - (C) 5 km
  - (D) 8 km
- **47.** If "PRICE" is coded as <u>11</u> 9 <u>18</u> <u>24</u> <u>22</u>, then HIGH is coded as
  - (A) <u>19 20 18 19</u>
  - (B) <u>17 18 20 17</u>
  - (C) 8978
  - (D) 19 18 20 19
- 48. If 'EDUCATION' is coded as 2 D 5 C 1 T 3 4 N, how can 'AUTOMOBILE' be coded?
  - (A) 15T4M4B3L2
  - (B) 14T3M3B2L5
  - (C) 2U5O1O3I4E
  - (D) 31T2M2B4L5

- Directions: In Question Nos. 49 and 50, one / two statements are given followed by two conclusions / Assumptions I and II. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions / Assumptions, if any, follow from the given statements.
- **49. Statements :** 1. All players are educated.
  - 2. All educated are cultured So
  - Conclusions: I. All players are cultured.
    - II. All cultured persons are players.
  - (A) Only I follows.
  - (B) Only II follows.
  - (C) Both I and II follows.
  - (D) Neither I nor II follows.
- 50. Statement: Education of the masses leads to a steady loss of the hold of caste in the
  - Assumptions: I. There is a direct relation between educational progress and decline of casteism.
    - II. Casteism can make considerable contribution to society.
  - (A) Only assumption I is implicit.
  - (B) Only assumption II is implicit.
  - (C) Both assumptions I & II are implicit.
  - (D) Neither assumption I nor II is implicit.

#### PART – II ENGLISH LANGUAGE

som have sent recta appr erro	e of the sentences have errors and some e none. Find out which part of a ence has an error and blacken the angle [	sent in w are corr indi	ences with ap sugge ect a cate	are given with lopropriate words, sted for each que	n Nos. 56 to 60, blanks to be filled. Four alternatives estion. Choose the of the four and the appropriate wer Sheet.	
51.	The Secretary and the Manager (A)	56.	He s	sat the tabl	e, writing a letter.	
	$\frac{\text{goes to London}}{\text{(B)}} \frac{\text{next week.}}{\text{(C)}} \frac{\text{No error.}}{\text{(D)}}$		(A)	across	g	
52.	I suggest you to become an engineer.  (A) (B) (C)		(B)	over by		
	No error. (D)		(D)	at		
53.	The courses in an autonomous college (A)	57.	My	sister me v	when I was ill.	88
	are different from a non-autonomous college (B)		(A)	called on		
	because of the freedom allowed to	Fiss	(B)	called out		
	an autonomous college. (C)		(C)	called off	**************************************	
e. (C)	No error.	_	(D)	called in	7.7	
ii *	(D)		1911 194 195	2 8 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
54.	The jury was unanimous (A) (B)	58.	The	patient was so	by the soft	
	(A) (B) in the Verdict. No error.				perated with the	117
	(C) (D)		doct	or in spite of acu	te pain.	
		7	(A)	carried over		
55.	You will be suspended unless you (A) (B)		(B)	carried away	) ×	
100	(A) (B) do not pay your fees. No error.		(C)	carried on		
	(C) (D)		(D)	carried out		
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# PART – II ENGLISH LANGUAGE

Directions: In Question Nos. 51 to 55, some of the sentences have errors and some have none. Find out which part of a sentence has an error and blacken the rectangle [ ] corresponding to the appropriate letter (A, B, C). If there is no error, blacken the rectangle [ ] corresponding to (D) in the Answer Sheet.	Directions: In Question Nos. 56 to 60, sentences are given with blanks to be filled in with appropriate words. Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate rectangle in the Answer Sheet.
51. The Secretary and the Manager (A)	56. He sat the table, writing a letter.
goes to London next week. No error. (B) (C) (D)	(A) across
52. I suggest you to become an engineer	(B) over
52. I suggest you to become an engineer.  (A) (B) (C)	(C) by
No error.	(Ď) at
(D)	
F2 The courses in an automorphism	
53. The courses in an autonomous college (A)	57. My sister me when I was ill.
are different from a non-autonomous college (B)	(A) called on
because of the freedom allowed to	(B) called out
an autonomous college.	(C) called off
(C)	
No error.	(D) called in
(D)	
54. The jury was unanimous	FO TI
(A) (B)	58. The patient was so by the soft
in the Verdict. No error.	music that he cooperated with the
(C) (D)	doctor in spite of acute pain.
	(A) carried over
55. You will be suspended unless you	(B) carried away
(A) (B)	10 10
do not pay your fees. No error.	(C) carried on
(C) (D)	(D) carried out
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<b>4</b>		2 a g				8
	0.4	2	, J			
	84.	जब तक साहब नहीं आ जाते आप ग्रहण करें ।	88	यश		
				(A)	सुयश	
		(A) आसन	3.	(B)	'अपमान	
		(B) आसन्न	- 40	(C)	अपयश	
		(C) बासन	ar w M			£
•		(D) राशन		(D)	दुर्यश	
* **						
	85.	शिवा ने परि	<b>89.</b> ,	कृतज्ञ		
	03.	भविष्य के प्रति जागरूक विद्यार्थी रात-भर रहते हैं।		(A)	कृपालु	
	3.8	× ×		(B)	कठोर	
		(A) जागते		(C)	क्रोधी	* 2
		(B) पढ़ते				8
		(C) पड़ते	31	(D)	कृतघ्न	
4.		(D) लिखते				
		8 9 80 N	90.	प्रत्यक्ष		
	निर्देश	: प्रश्न संख्या 86 से 90 में दिये हुए प्रत्येक शब्द		(A)	पीछे	
<b>1</b>		का विलोम चुनने के लिए चार विकल्प प्रस्तावित	SE	(B)	परोक्ष	
		हैं । उचित विकल्प का चयन कीजिए तथा उत्तर-		(C)	परीक्ष्य	
	10	पुस्तिका में तदनुसार काला कीजिए ।		3		
				(D)	सूक्ष्म	W H
he seemed	86.	उत्थान	16			
<b>.</b> .		(A) स्थान	निर्देश	: प्रश्न	संख्या 91 से 95 में दिये	हुए प्रत्येक शब्द
N.		(B) प्रस्थान		का वत	नी के लिए चार विकल्प वि ल एक विकल्प में शब्द की	रये गए हैं । इनमें
	x <sup>3</sup>	(C) वितान		उसे र्चा	त एक विकल्प म शब्द का नेए तथा उत्तर-पुस्तिका में	। शुद्ध वतना ह । वटनमार काला
		(D) पतन		कीजिए	1	त्त्रभुतार काला
	w g			3		
	87.	and a	91	आदरनी	77	
		(A) दीर्घ		N 51	N 80	
					आदरनीय	
		(B) स्थूल		(B)	आदरणीय	20
		(C) लघु		(C)	आदर्नीय	E 80
		(D) महत्तम		(D)	आद्रणीय	* * *
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### PART – III GENERAL AWARENESS

101. SQL in Computer Science stands for	106. Earth is protected from ultra-violet
(A) Sorted Query Language	radiation by means of
(B) Structured Quick Language	(A) Oxygen layer
(C) Structured Query Language	(B) Ozone layer
(D) Structured Quick Launch	(C) Nitrogen layer
a = 2 2 2	(D) Carbon dioxide layer
102. Which of the following is not a part of	
the processor of a computer?	107. The highest policy-making body in
(A) ALU	national planning in India is
(B) CU	(A) Administrative Reforms
(C) Registers	Commission
(D) RAM	(B) Finance Commission
	(C) Inter-State Council
103. Rotation of crop is essential	(D) National Development Council
(A) for increasing the quantity of	** · · · · · · · · · · · · · · · · · ·
minerals.	108. Which one of the following is an
(B) for increasing the quantity of	example of fixed cost?
proteins.	(A) Price of raw material
(C) for getting different kinds of	(B) Fuel and power charges
crops.	(C) Rent for building
(D) for increasing the fertility of the soil.	(D) Wage for casual labour
5011.	* * * * * * * * * * * * * * * * * * *
104. The major component in CNG is	109. The principle of population was
(A) ethane	propounded by
(B) propane	(A) Gardener
(C) butane	(B) Odum
(D) methane	(C) Darwin
(=) memano	(D) Malthus
105. World Environment Day is celebrated	110. The mublic mind
on	110. The public, private, cooperative and joint sectors exist in a
(A) June 5	(A) Mixed economy
(B) February 28	(B) Socialist economy
(C) November 14	(C) Communist economy
(D) July 15	(D) Capitalistic economy
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111.	The	State which stands first in	116	. Wh	o spoke in Hindi for the first time
. N		vare exports from India is			ne UNO General Assembly?
	(A)	Maharashtra		(A)	Indira Gandhi
	<b>(B)</b>	Tamil Nadu	100		Service Control of the Control of th
	(C)	Karnataka		(B)	P. V. Narasimha Rao
	(D)	Andhra Pradesh	5	(C) (D)	Atal Bihari Vajpayee Rajiv Gandhi
112.	Panc	hayats were given constitutional		(D)	Rajiv Gandin
300 <sup>(5)</sup>	statu	s by the amendment to	117	Hou	many expeditions did Babur lead
		Constitution.	117.		ccupy Delhi?
	(A)	75 <sup>th</sup>	240		
	(B)	74 <sup>th</sup> .		(A)	Three
	(C)	73 <sup>rd</sup>		(B)	Four
	(D)	72 <sup>nd</sup>		(C)	Five
			i k	(D)	Six
113.	The 1	President can declare a national		2 17 9	
e e e		gency on	118.	Whi	ch one of the following
	(A)	his own		mon	uments has the second largest
160	(B)	the written recommendation of		dom	e in the world?
	(C)	the Prime Minister	v.	(A)	Quwat-ul-Islam Masjid
	(C)	the basis of the report of the Governor of a State,	Ů.	(B)	Gol Gumbaz
et to el	(D)	the written recommendation of	(A) 25	(C)	Jamat Khana Masjid
*		the Union Cabinet.		(D)	Alai Darwaza
114.	Sarka	ria Commission was set up for	110	Duris	og uhosa mini Te Wasaning
	reviev	ving the relations between	110.	India	ng whose reign Fa-Hien visited
	(A)	Centre and States			
		Legislature and Executive	[ ·	(A)	Late 1 to 1
		Executive and Judiciary		(B)	Samudragupta
(	(D)	The Prime Minister and the		(C)	Chandragupta I
	18	President		(D)	Chandragupta II
115 -					
115.	o rai	se a discussion in the House on a	120.	The s	lave king who got the title 'Lakh
		of urgent public importance,			h' was
		motion is used ? Censure		(A)	Iltutmish
		Adjournment		(B)	Razia
		Calling attention	92 8		
, v		Cut motions		(C) (D)	Qutbudin Aibak Balban

21.		was the first Indian soldier to e to use the greased cartridge?	126.	The Wear	largest number of Cotton ving mills are located in
	(A)	Nana Saheb		(A)	Tamil Nadu
	(B)	Bahadur Shah	2)	(B)	Uttar Pradesh
	(C)	Mangal Pandey	8	(C)	Maharashtra
	(D)	Tantia Tope		100 0000	Gujarat
			N 15		
22.	Vasco	da Gama discovered sea route	127.	Hibe	rnation phenomenon is noticed in
	to			9	Cosmonauts
	(A)		ici	(B)	Avians
	(B)	S. America	M Ja	(C)	Mammalians
	(C)	India		(D)	Amphibians
	(D)	Australia	×	(1)	. impiniorans
d'a	800		129	Dono	to in a
23.	(22)	river rises in mountains.	120.		que is a
	(A)	Eastern Ghat		(A)	viral infection
	(B)	Western Ghat		(B)	fungal infection
	(C)	Satpura		(C)	bacterial infection
	(D)	Vindhya	e	(D)	protozoan infection
24	<b>701</b>		S (9)		
24.		major goal of the Green lution has been to	129.		roaches, prawns and crabs
	(A)			posse	
12 5F	()	farm machinery.		(A)	Simple eyes
	(B)	Decrease Population growth.		(B)	Compound eyes
	(C)	Increase agricultural output.	a .	(C)	Parietal eyes
	(D)	Increase the number of		(D)	No eyes
		traditional farms.			
			130.		liesel, a kind of non-conventional
25.		orld's most important renewable	- 155 Tel	from	ce of energy, which is obtained
	W 200 W	y resource is	y = 000 200	(A)	Sugarcane
	(A)	Natural vegetation			
	(B)	Water		(B)	Jatrophą
	(C)	Solar radiation		(C)	Castor plant
		Tidal waves	2 2	(D)	Mustard plant
12 1	MN 2		28	w.	CA-2010-I

31.	Photosynthesis occurs	136.	The tides in the ocean are due to	
	(A) only in leaves	9	(A) Wind over the Oceans	
	(B) only in stems		(B) Gravitational pull of the Moon	
	(C) in all green parts of plants		(C) Rotation of the Earth	
	(D) in the roots		(D) Revolution of the Earth	
32.	Banana leaves on maturity tear into	137.	Oil-fires are extinguished by	
	ribbons to avoid		(A) Soda-acid fire extinguisher	
	(A) desiccation		(B) Foam-type fire extinguisher	•
	(B) air resistance		(C) Carbon-tetrachloride fire	
	(C) scorching sunlight		extinguisher	à.
	(D) mutual shading		(D) Simply by water	
33.	The substance which changes from	138.	The apparatus used for measuring the	
	solid to vapour state at normal	2.0	heat change is called	337
	atmospheric pressure without being	8	(A) Thermometer	
	liquefied is	158	(B) Voltameter	
	(A) Ice	10.00	(C) Voltmeter	
	(B) Mercury	40	(D) Calorimeter	
	(C) Camphor	· ·		
	(D) Bismuth	139.	Plaster of Paris hardens by	
15.		İ	(A) combining with water	
34.	Which energy comes from Sun?		(B) giving out water	
	(A) Wind energy	305	(C) giving out CO <sub>2</sub>	
	(B) Thermal energy	Sec. 11	(D) combining with CO <sub>2</sub>	
	(C) Tidal energy			
	(D) Hydel energy	140.	German Silver is an alloy of	
	2 5 5		(A) Silver and Copper	81
35.	The tungsten wire in coiled form in		(B) Silver and Aluminium	
	electric bulb has		(C) Copper, Zinc and Nickel	
	(A) lower melting point and lower	5 K	(D) Nickel and Aluminium	
	resistance	1	(2) Mokel and Aluminimin	
9	(B) lower melting point and higher	141	What was the name accorded to the	
	resistance	171.	Military Operation in Kargil in 1999?	
	(C) higher melting point and lower		(A) Operation Pawan	
	resistance	9	(B) Operation Poomalai	
9	(D) higher melting point and higher		(C) Operation Vijay	
	resistance		(D) Operation Brasstacks	
ě	MN 2 3		(D) Operation brasstacks	

- **142.** The film 'Slumdog Millionaire' is based on the book 'Question & Answer' written by
  - (A) Bhisham Swarup
  - (B) Vikas Swarup
  - (C) Vimal Swarup
  - (D) Vinay Swarup
- 143. The International Hockey Tournament in which only the top six nations (judged by their rankings) are invited to take part is
  - (A) Champions Trophy
  - (B) Azlan Shah Cup
  - (C) World Cup
  - (D) Champions Challenge Trophy.
- 144. Pankaj Advani has won the World Professional Billiard Championship, 2009 defeating in the final
  - (A) Geet Sethi
  - (B) Robert Frost
  - (C) Om Agarwal
  - (D) Mike Russel
- **145.** To whom did India beat to lift the ONGC Nehru Cup, 2009?
  - (A) Japan
  - (B) Somalia
  - (C) Syria
  - (D) Afghanistan
- **146.** The recipient of the 42<sup>nd</sup> Jnan Peeth Award this year is
  - (A) Manohar Shashtri
  - (B) Satya Vrat Shashtri
  - (C) K. Kaushal Panda
  - (D) Mahavir Shashtri
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- **147.** Who has won the 100 metres sprints at the British Grand Prix recently?
  - (A) Tyson Gray
  - (B) Usain Bolt
  - (C) Kim Collins
  - (D) Mario Burns
- 148. The World Badminton Federation declared the Indian Shuttler, Saina Nehwal, as
  - (A) The most promising player of 2008
  - (B) The leading player of 2008
  - (C) The most popular player of 2008
  - (D) The emerging player of 2008
- 149. The first sister from India to be conferred the Sainthood by Pope Benedict XVI is
  - (A) Sister Desouza
  - (B) Sister Nirmala
  - (C) Sister Alphensa
  - (D) Sister Madorana
- 150. The three countries in serial order which won the highest number of Gold Medals in the Beijing Olympics are
  - (A) China, U.S.A, Russia
  - (B) China, U.S.A, Germany
  - (C) China, Germany, Australia
  - (D) China, Australia, Canada

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#### PART – IV NUMERICAL APTITUDE

- 151. The boys of a class are made to stand in a queue. Amit is standing at 15<sup>th</sup> place from both ends. How many boys are there in the queue?
  - (A) 31
  - (B) 30
  - (C) 29
  - (D) 28
- 152. If the sum of a rational number and its reciprocal is 13/6, then the number is
  - (A)  $\frac{1}{2}$
  - (B)  $\frac{1}{6}$
  - (C)  $\frac{2}{3}$
  - (D)  $\frac{5}{6}$
- 153. In a group of students; 30 students play Cricket, 20 play Tennis and in all 35 play either Cricket or Tennis. How many students play both Cricket and Tennis?
  - (A) 10
  - (B) 12
  - (C) 15
  - (D) 18

- **154.** Simplified value of  $\frac{(15.4)^2 (35.4)^2}{25}$  is
  - (A) -40.64
  - (B) 10.16
  - (C) 40.64
  - (D) 50.80
- 155. Simplified value of

$$\frac{(0.361)^3 + (0.639)^3}{(0.361)^2 - 0.361 \times 0.639 + (0.639)^2}$$
 is

- (A) 1
- (B) 361
- (C) 639
- (D) 1000
- **156.** If the sum of one-half, one-third and one-fourth of a number exceeds the number by 12, then the number is
  - (A) 90
  - (B) 144
  - (C) 154
  - (D) 174
- **157.**  $32^{\frac{4}{5}} + 32^{-\frac{4}{5}}$  is equal to
  - (A) 32
  - (B)  $16\frac{1}{16}$
  - (C)  $15\frac{15}{16}$
  - (D) 1

**158.** If  $\frac{a}{b} = \frac{5}{3}$  and 8a + 5b = 22, then a is equal to

- (A) 2
- (B) 4
- (C) 5
- (D) 6

159.  $\frac{(698 + 198)^2 - (698 - 198)^2}{698 \times 198}$  is equal to

- (A) 2
- (B) 4
- (C) 9854
- (D) 9874

160. The cube root of

 $0.027 + 0.064 + 3 \times 0.12 \times 0.7$  is

- (A) 0.30
- (B) 0.40
- (C) 0.12
- (D) 0.70

**161.**  $\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}} + \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}}$  is equal to

- (A) 3.464
- (B) 2.828
- (C) 1
- (D) 10

162.  $\sqrt{3\sqrt{3\sqrt{3\sqrt{3}}}}$  is equal to

- (A)  $3^{\frac{33}{32}}$
- (B)  $3^{\frac{27}{32}}$
- (C)  $3^{\frac{31}{32}}$
- (D)  $3^{\frac{5}{32}}$

163.  $35 \times 35 \times 35 - 25 \times 25 \times 25 - 10 \times 10 \times 10$  is equal to

- (A) 26,250
- (B) 17,500
- (C) 8,750
- (D) .0

**164.**  $\sqrt[3]{\frac{7}{2401}}$  is equal to

- (A)  $\frac{1}{9}$
- (B)  $\frac{1}{7}$
- (C)  $\frac{1}{21}$
- (D)  $\frac{1}{13}$

- **165.**  $\sqrt{7+2\sqrt{12}} + \sqrt{7-2\sqrt{12}}$  is equal to
  - (A) 4
  - (B)  $4\sqrt{3}$
  - (C) 6
  - (D)  $6\sqrt{2}$
- 166. The smallest perfect square number, which is divisible by each of 2, 3, 4, 5 and 6, is
  - (A) 600
  - (B) 840
  - (C) 900
  - (D) 1600
- **167.**  $\left(1 \frac{1}{2}\right) \left(1 \frac{1}{3}\right) \left(1 \frac{1}{4}\right) \left(1 \frac{1}{5}\right) \dots \left(1 \frac{1}{100}\right)$  is equal to
  - (A)  $\frac{1}{120}$
  - (B)  $\frac{1}{108}$
  - (C)  $\frac{1}{100}$
  - (D)  $\frac{1}{50}$
- **168.** The sum of the first 51 terms of the arithmetic progression, whose 26<sup>th</sup> term is 300, is
  - (A) 15,100
  - (B) 15,300
  - (C) 15,500
  - (D) 15,700

- 169. The sum of all even numbers upto 100 is
  - (A) 1000
  - (B) 2000
  - (C) 2500
  - (D) 2550
- 170.  $\frac{1}{1 \times 4} + \frac{1}{4 \times 7} + \frac{1}{7 \times 10} + \frac{1}{10 \times 13}$  is equal to
  - (A)  $\frac{2}{7}$
  - (B)  $\frac{3}{13}$
  - (C)  $\frac{3}{7}$
  - (D)  $\frac{4}{13}$
- 171. The average of all odd numbers less than 100 is
  - (A) 49
  - (B) 50
  - (C) 51
  - (D) 52
- 172. A batsman has a certain average of runs for 11 innings played by him. In his 12<sup>th</sup> innings he scored 90 runs, thereby decreased his average of runs by 5. His average of runs for 12 innings is
  - (A) 217
  - (B) 150
  - (C) 145
  - (D) 127

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- 173. The average of monthly salaries of A, B and C is Rs. 40,000 and that of B, C and D is Rs. 50,000. If D's monthly salary is Rs. 60,000, then A's monthly salary is
  - (A) Rs. 30,000
  - (B) Rs. 40,000
  - (C) Rs. 50,000
  - (D) Rs. 60,000
- 174. The selling price of a commodity is reduced by 25%. As a result its daily sale is increased by 30%. Due to this effect the revenue collected, compared to the previous daily sale, will be
  - (A) 5% more
  - (B) 5% less
  - (C) 2.5% more
  - (D) 2.5% less
- 175. In an examination, a student got 30% marks out of 180 in the first paper of a subject. How much must he get in the second paper out of 150 so that he gets 50% marks in the subject?
  - (A) 70%
  - (B) 74%
  - (C) 76%
  - (D) 80%

- 176. Let us suppose that when water freezes in the form of ice, its volume is increased by 10%. What percent decrease will there be when ice melts in the form of water?
  - (A) 10
  - (B) 9
  - (C)  $11\frac{1}{9}$
  - (D)  $9\frac{1}{11}$
- 177. If A: B = 2: 3 and B: C = 4: 5, then 5A: 3C is
  - (A) 8:9
  - (B) 5:8
  - (C) 7:9
  - (D) 6:7
- 178. The ratio of two numbers is 5: 8 and their difference is 69. The smaller of the two numbers is
  - (A) 184
  - (B) 140
  - (C) 115
  - (D) 108
- 179. The incomes of A and B are in the ratio
  3: 2 and their expenditures in the ratio
  5: 3. If each saves Rs. 10,000, A's income is
  - (A) Rs. 30,000
  - (B) Rs. 40,000
  - (C) Rs. 60,000
  - (D) Rs. 90,000

- 180. A person took two equal loans for 2 years and 3 years respectively each at 8% simple interest. If at the end of the terms, the difference of interests was Rs. 560, then the amount of each loan was
  - (A) Rs. 7,000
  - (B) Rs. 7,200
  - (C) Rs. 7,500
  - (D) Rs. 7,800
- 181. A sum of money at compound interest, compounded half-yearly becomes  $\frac{676}{625}$  times of itself in one year. The rate of interest per annum is
  - (A) 10%
  - (B) 8%
  - (C) 6%
  - (D) 5%
- 182. A sum of money at compound interest amounts to Rs. 10,648 in 3 years and to Rs. 9,680 in 2 years. The rate of interest per annum is
  - (A) 20%
  - (B) 16%
  - (C) 15%
  - (D) 10%

- 183. Two successive discounts of 10% and 5% are equivalent to a single discount of
  - (A) 15%
  - (B)  $7\frac{1}{2}\%$
  - (C)  $12\frac{1}{2}\%$
  - (D)  $14\frac{1}{2}\%$
- 184. The marked price of an article is 20% above its cost price. If the trader allows 20% discount on its marked price, he will get
  - (A) 4% profit
  - (B) 4% loss
  - (C) 5% profit
  - (D) 5% loss
- 185. A man can complete one-third of a work in 18 days. How many days will he need to complete 0.5 part of the work?
  - (A) 36
  - (B) 27
  - (C) 24
  - (D) 2

- 186. A and B together can do a piece of work in 12 days, B and C together in 15 days and C and A together in 20 days. In how many days can A alone do the same work?
  - (A) 22
  - (B) 25
  - (C) 30
  - (D) 40
- 187. A is twice as good a workman as B and together they complete a piece of work in 14 days. In how many days can A alone complete the work?
  - (A) 21
  - (B) 28
  - (C) 30
  - (D) 35
- 188. If 1 man or 2 women or 3 boys can do a piece of work in 55 days, in how many days, will 1 man, 1 woman and 1 boy together do the same work?
  - (A) 40
  - (B) 36
  - (C) 33
  - (D) 30
- 189. A car completes a certain journey in 8 hours. It covers half the distance at 40 km/hr and the rest at 60 km/hr. The length of the journey is
  - (A) 420 km
  - (B) 400 km
  - (C) 384 km
  - (D) 350 km

- 190. In going from station A to station B, a distance of 100 km, a train moves with speed 40 km/hr and in returning back from B to A, it runs with speed 60 km/hr. The average speed (in km/hr) of the train for the entire journey is
  - (A) 45
  - (B) 48
  - (C) 50
  - (D) 55
- 191. A man walking at 3 km/hr crosses a square field diagonally in 2 minutes. The area (in m²) of the field is
  - (A) 2500
  - (B) 3000
  - (C) 5000
  - (D) 6000
- 192. A runs twice as fast as B and B runs thrice as fast as C. In how many minutes, will the journey, covered by C in 42 minutes, be covered by A?
  - (A) 36
  - (B) 28
  - (C) 14
  - (D) 7
- 193. The total surface area of a solid hemisphere is 1848 cm<sup>2</sup>. Its diameter is

$$\left(\text{use }\pi = \frac{22}{7}\right)$$

- (A) 28 cm
- (B)  $14\sqrt{6}$  cm
- (C)  $7\sqrt{6} \text{ cm}$
- (D) 14 cm

- 194. Each of the radius of a sphere and that of the base of a right circular cylinder is 3 cm. If their volumes are equal, the height (in cm) of the cylinder is
  - (A) 4.
  - (B) 9
  - (C) 12
  - (D) 22
- 195. The ratio of the area of an equilateral triangle and that of a square is  $\sqrt{3}$ : 2. If the length of a diagonal of the square is 60 cm, then the perimeter of the triangle is
  - (A) 150 cm
  - (B) 180 cm
  - (C) 210 cm
  - (D) 240 cm
- 196. The difference between the circumference and the diameter of a circle is 15 cm. The radius (in cm) of the circle is  $\left(\text{Take } \pi = \frac{22}{7}\right)$ 
  - (A) 7
  - (B) 4.5
  - (C) 3.5
  - (D) 2.25

- 197. 6% more is gained by selling a radio for Rs. 475, than by selling it for Rs. 451. The cost price of the radio is
  - (A) Rs. 434
  - (B) Rs. 400
  - (C) Rs. 446.50
  - (D) Rs. 427.50
- 198. By selling an article for Rs. 255, a man incurs a loss of 15%. For what price should he sell it so that he makes a profit of 20%?
  - (A) Rs. 275
- (B) Rs. 300
- (C) Rs. 375
- (D) Rs. 360
- 199. A production-house sells their items at 20% profit. If the production cost is increased by 10%, but the selling price remains unaltered, the profit is
  - (A)  $9\frac{1}{11}\%$
- (B) 10%
- (C) 11%
- (D)  $11\frac{1}{9}\%$
- 200. A shop-keeper had to sell an article at 20% loss. He could gain 5%, if he had sold the article for Rs. 200 more. The cost price of the article was
  - (A) Rs. 700
  - (B) Rs. 800
  - (C) Rs. 900
  - (D) Rs. 1,000