

AFCAT II 2021

1. When was the Saff football cup held in India?

- A. 23 December 2015
- B. 28 December 2015
- C. 8 January 2016
- D. 14 January 2016

2. When were the Asian African games first held?

- A. 2003 - Hyderabad, India
- B. 2003 - Delhi, India
- C. 2004 - Chennai, India
- D. 2003 - Kolkata, India

3. Who was the first person to hit 6 sixes in a T20 Match?

- A. Herschelle Gibbs
- B. Yuvraj Singh
- C. Sachin Tendulkar
- D. Ravi Shastri

4. Chris Evert related to which sport

- A. Badminton
- B. Tennis
- C. Swimming
- D. Shooting

5. Bully is related to which sport?

- A. Hockey
- B. Football
- C. Basketball
- D. Baseball

6. The word Chukkar used in which sport.

- A. Cricket
- B. Baseball
- C. Polo

D. Badminton

7. Which one of the following is known as the Lightest Gas?

- A. Hydrogen
- B. Helium
- C. Carbon dioxide
- D. Ammonia

8. A Sphygmometer is used to measure;

- A. Body temperature
- B. Blood pressure
- C. Heartbeat
- D. Atmospheric pressure

9. Choose the option which expresses the meaning of the given idiom correctly.

Fly off the handle.

- A. Happening very rarely.
- B. Lose one's temper suddenly and unexpectedly.
- C. To share secret information.
- D. Come to the point

10. Choose the option which expresses the meaning of the given idiom correctly.

Not to mince matters

- A. Keep something away.
- B. Looking in the wrong place.
- C. To speak bluntly and directly.
- D. To avoid the main topic.

11. Choose the most appropriate **antonym** for the word given in bold.

MITIGATE

- A. Aggravate
- B. Attenuate
- C. Lessen

D. Alleviate

12. Choose the most appropriate **antonym** for the word given in bold.

LUSCIOUS

- A. Audible
- B. Unappetizing
- C. Lustrous
- D. Exorbitant

13. Choose the most appropriate **synonym** for the word given in bold.

ALLUDED

- A. Mix
- B. Conclude
- C. Suggest
- D. Important

14. Choose the most appropriate **synonym** for the word given in bold.

FLIMSY

- A. Puppet
- B. Dramatic
- C. Clobber
- D. Insubstantial

15. Choose the most appropriate **synonym** for the word given in bold.

VENT

- A. Outlet
- B. Tackle
- C. structure
- D. Hierarchy

16. Choose the most appropriate **synonym** for the word given in bold.

ARTIFACT

- A. Device
- B. Pawn
- C. Relic
- D. Apparatus

17. Choose the most appropriate **synonym** for the word given in bold.

PILFER

- A. Stern
- B. Steal
- C. Overturn
- D. Captivate

18. Choose the most appropriate **synonym** for the word given in bold.

VANQUISH

- A. Conquer
- B. Eloquence
- C. Cogency
- D. Extinct

19. Choose the most appropriate **synonym** for the word given in bold.

AFFLUENT

- A. Fluidity
- B. Vindicate
- C. Influence
- D. Wealthy

20. Choose the most appropriate **synonym** for the word given in bold.

EXONERATE

- A. Engage
- B. Absolve
- C. Convict
- D. Charge

21. Choose the option which expresses the meaning of the given idiom correctly.

To get an axe to grind.

- A. Use courage and strength to achieve something.
- B. Have a personal reason for doing or being involved in something.
- C. To be furious
- D. To remove something or someone.

22. Choose the option which expresses the meaning of the given idiom correctly.

A bird's eye view.

- A. A view from an apartment.
- B. Contemplate
- C. Farsightedness
- D. An overall or cursory look at something

23. Choose the option which expresses the meaning of the given idiom correctly.

Kick the bucket.

- A. Presenting a counter-argument
- B. Raining very heavily
- C. Something easy to do.
- D. To die.

24. Choose the most appropriate **antonym** for the word given in bold.

DEBACLE

- A. Disintegration
- B. Triumph
- C. Fiasco
- D. Rout

25. Select the part of the given sentence which has an error, if there is no error mark the answer as option D 'no error'.

- A. He very promptly
- B. Made on
- C. My coffee table.

D. No error

###COMMON###26###26###Fill in the blank with the most appropriate word. ###DONE###

26.

He won a prize for the _____ discovery.

- A. Petite
- B. Sensational
- C. Appalling
- D. Repulsive

###COMMON###27###27###Fill in the blank with the most appropriate word. ###DONE###

27.

No sooner did he arrive _____ the hotel.

- A. For
- B. upon
- C. On
- D. at

28.Fill in the blanks with the most appropriate words.

Ravi congratulated him _____ latter's success.

- A. In
- B. On
- C. At
- D. Upon

29.Choose the option which expresses the meaning of the given idiom correctly.

To take people by storm.

- A. To perform a task properly
- B. To hear rumours about someone or something.
- C. To offer an alternative point of view.

D. To be suddenly extremely successful in a place.

30. Choose the option which expresses the meaning of the given idiom correctly.

Keep one's head.

- A. Keep something away.
- B. Keep quiet
- C. To remain calm.
- D. Embarrassing moment

31. Select the part of the given sentence which has an error, if there is no error mark the answer as option D 'no error'.

- A. The days in
- B. December are warm
- C. Than the nights.
- D. No error

32. Choose the most appropriate **antonym** for the word given in bold.

ENTANGLED

- A. Release
- B. Trap
- C. Knot
- D. Entwine

33. Choose the most appropriate **antonym** for the word given in bold.

INQUISITIVE

- A. Eager
- B. Uncurious
- C. Intrigued
- D. Interested

34. Choose the most appropriate **antonym** for the word given in bold.

ENDOW

- A. Bestow
- B. Bequeath
- C. Provide
- D. Take

35. Choose the most appropriate **synonym** for the word given in bold.

INTIMIDATE

- A. Encourage
- B. Inspire
- C. Frighten
- D. Reassure

36. Choose the most appropriate **antonym** for the word given in bold.

DECEIT

- A. Dissembling
- B. Trickery
- C. Deception
- D. Honest

37. Choose the most appropriate **antonym** for the word given in bold.

IMPOUND

- A. Restrict
- B. Uncage
- C. Confine
- D. Seize

38. Choose the most appropriate **synonym** for the word given in bold.

CONTEMPLATE

- A. Assume
- B. Speculation
- C. Overlook
- D. Observe

39. Separation of Judiciary from the Executive is located at -

- A. Article - 48
- B. Article - 49
- C. Article - 50
- D. Article - 51

40. Where is Hawaii Island located?

- A. Atlantic Ocean
- B. Pacific Ocean
- C. Indian Ocean
- D. Arctic Ocean

41. Salar Jung museum is located at ? -

- A. Hyderabad
- B. Mysore
- C. Chennai
- D. Bangalore

42. Which fort was not built by the Akbar -

- A. Allahabad
- B. Gwalior
- C. Agra
- D. Lahore

43. Aurora Borealis found in which region -

- A. North Pole Region
- B. Equatorial Region
- C. Temperate Region
- D. Southern Sphere

44. Who is known as Punjabi Kesari?

- A. Lala Lajpat Rai
- B. Bal Gangadhar Tilak
- C. Bhagat Singh
- D. Rajendra Prasad

45. At which place United Nation was founded -

- A. San Francisco
- B. Paris
- C. New York
- D. London

46. Who is known as Napoleon of India -

- A. Samudra Gupta
- B. Ashoka
- C. Chandragupta
- D. Harshvardhana

47. 1st SAARC Summit happened on -

- A. 1986
- B. 1984
- C. 1985
- D. 1987

48. Equator does not pass through which continent -

- A. North America
- B. South America
- C. Africa
- D. Europe

49. What is the name of the international boundary between China & India -

- A. McMahon Line
- B. Redcliffe Line
- C. Durand Line
- D. Line of Control

50. Which is the best quality iron ore -

- A. Siderite
- B. Limonite
- C. Haematite
- D. Magnetite

51. Which state was the first autonomous republic -

- A. Malla
- B. Koshal
- C. Magadh
- D. Gandhara

52. Which among the following is the north flowing river -

- A. Chambal
- B. Narmada
- C. Tapi
- D. Ganga

53. Almaty is the capital of which country -

- A. Turkmenistan
- B. Armenia
- C. Kazakhstan
- D. Uzbekistan

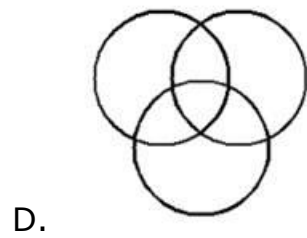
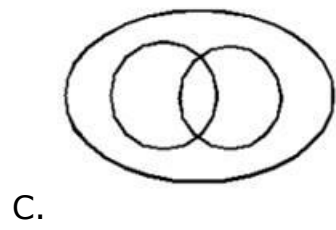
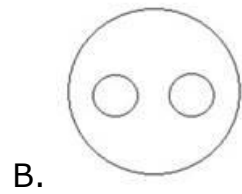
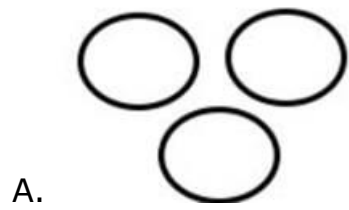
54. Chandigarh City was planned by -

- A. Edwin Lutyens
- B. Herbert Baker
- C. Lord Minto
- D. Le Corbusier

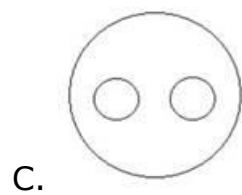
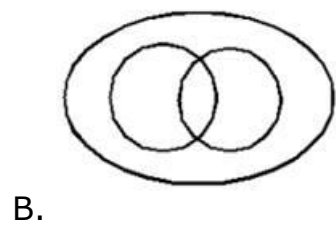
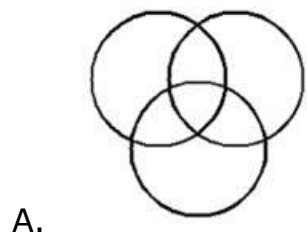
55. When was Lord Mountbatten became the Viceroy of India -

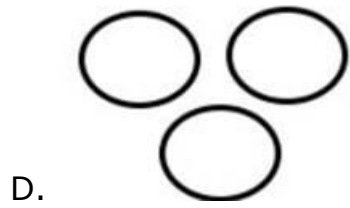
- A. 1945
- B. 1946
- C. 1947
- D. 1948

56. Which Venn diagram truly represents the relationship among Shark, Whale and Sea turtle:

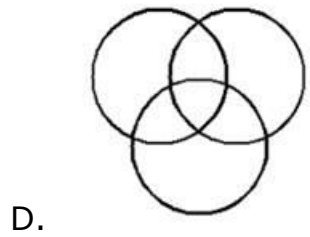
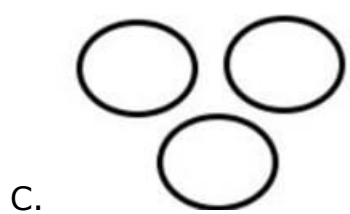
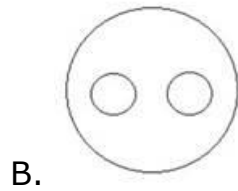
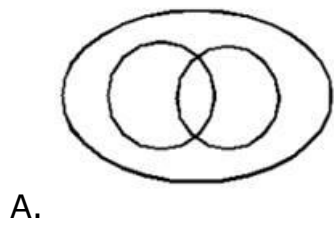


57. Which Venn diagram truly represents the relationship among Atoms, Electron and Neutron:





58. Which Venn diagram truly represents the relationship among Football lovers, Cricket Player and Students:



59. Complete the series:

Dog : Kennel :: Cow : ?

- A. Carriage
- B. Flock
- C. Barn
- D. Stadium

60. Choose odd one out:

- A. Parrot
- B. Flea
- C. Beetle
- D. Grasshopper

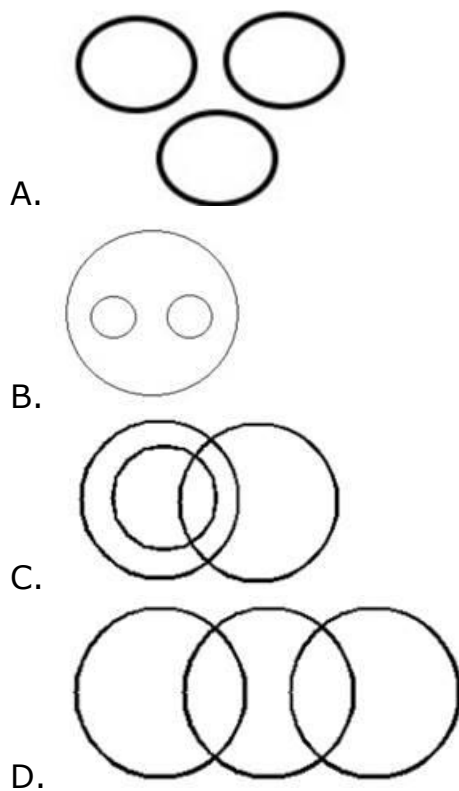
61. Choose odd one out:

- A. Insect : Entomology
- B. Fish : Pisciculture
- C. Birds : Horticulture
- D. Silk : Sericulture

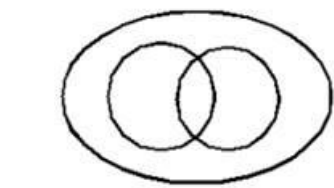
62. Choose odd one out:

- A. Fish
- B. Whale
- C. Crocodile
- D. Snake

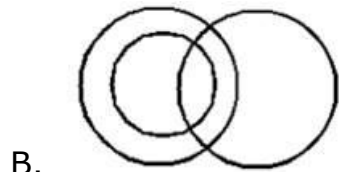
63. Which Venn diagram truly represents the relationship among Sugarcane, Millets and Crop:



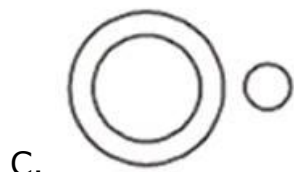
64. Which Venn diagram truly represents the relationship between Tadpole, Insects and Moth:



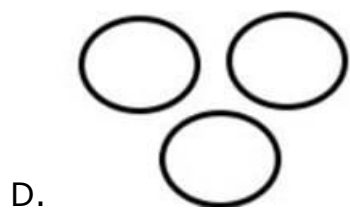
A.



B.

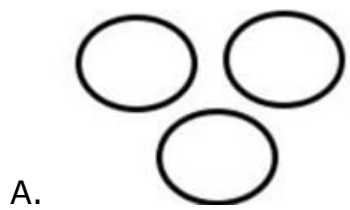


C.

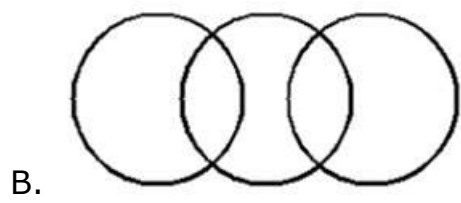


D.

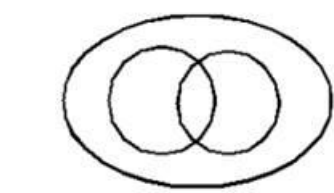
65. Which Venn diagram truly represents the relationship among Flower, Cloth and White:



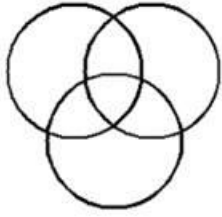
A.



B.

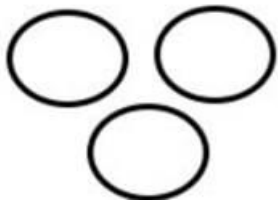


C.

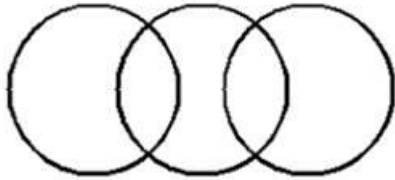


D.

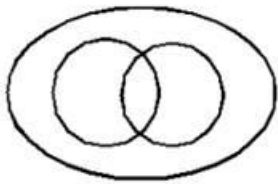
66. Which Venn diagram truly represents the relationship between Uncle, Parent and Friend:



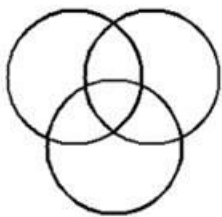
A.



B.



C.



D.

67. Complete the series:

Insulin : Hormone :: Trypsin : ?

- A. Protein
- B. Enzyme
- C. Carbohydrate
- D. Starch

68. Choose odd one out:

- A. Shorthand
- B. Record
- C. Morse
- D. Semaphore

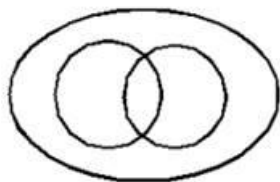
69. Choose odd one out:

- A. Mughal : Babur
- B. Maurya : Chandragupta
- C. Jainism : Mahaveer
- D. Kushan : Kanishka

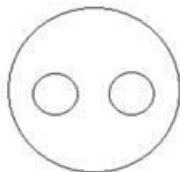
70. Choose odd one out among Breeze, Earth, Rock and Mountain:

- A. Earth
- B. Rock
- C. Mountain
- D. Breeze

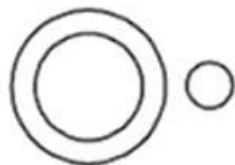
71. Which Venn diagram truly represents the relationship among Water, Nitrogen and Hydrogen:



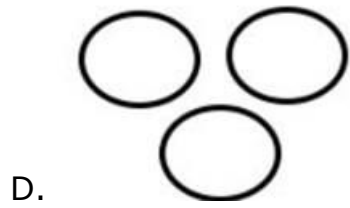
A.



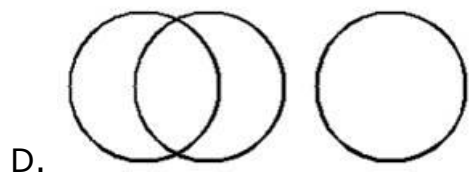
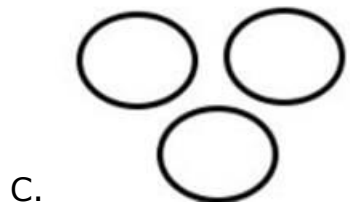
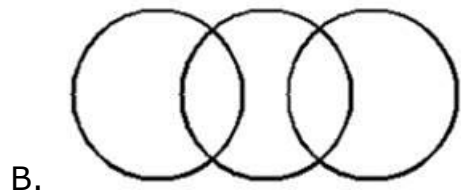
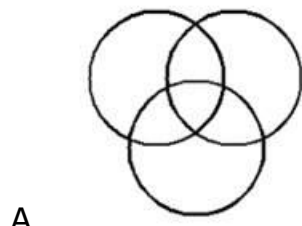
B.



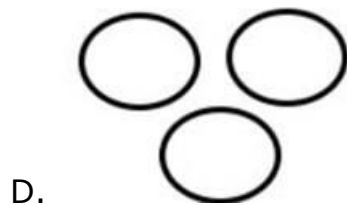
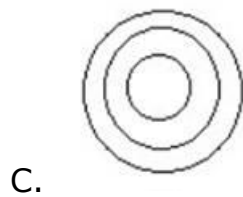
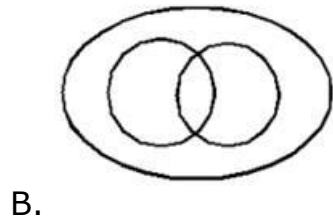
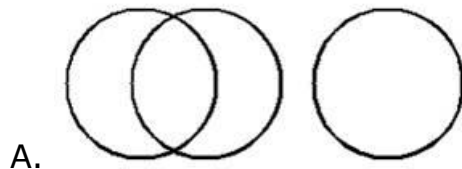
C.



72. Which Venn diagram truly represents the relationship among cloth, color, and merchant.



73. Which Venn diagram truly represents the relationship among living being, Human and Animal:



74. Sides of a triangle are in ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$ and the perimeter is 117m. What is the length of biggest side:

- A. 54 m
- B. 55 m
- C. 22 m
- D. 33 m

75. 3 years ago, the average of A, B and C was 18 years. At present average age of A, B, C and D is 22 years. Find the present age of D.

- A. 20 years
- B. 22 years
- C. 23 years
- D. 25 years

76. A can do a work in 90 days, B in 40 days and C in 12 days. They all work alternatively such that A works for 3 days, B work for 2 days and C works for one. This is repeated till the work complete. At the end, they were paid 240 Rs. Find their portion based on work they did:

- A. Rs. 40, Rs. 80 and Rs. 120
- B. Rs. 40, Rs. 70 and Rs. 130
- C. Rs. 60, Rs. 80 and Rs. 100
- D. Rs. 48, Rs. 72 and Rs. 120

77. Ashok and Raj start from a point A towards B. Ashok starts one hour earlier than Raj. Raj could catch Ashok two hours after he started walking but Ashok increased his speed equal to the speed of Raj and reached point B in 5 hours. At the same time, Raj reduced his speed equal to the speed of Ashok. What is the difference of time taken by them if the distance between A and B is 42 km:

- A. 2 hr.
- B. 2.25 hr
- C. 2.5 hr
- D. 3 hr

78. A fresh fruit contains 75% water. The weight of dry fruit is 500 kg and it contains 20% water. What is the weight of fresh fruit:

- A. 2500 kg
- B. 1600 kg
- C. 1500 kg
- D. 3000 kg

79. 1000 sweets each to be distributed equally among the 4 students. Each student has already 10% sweets of total sweets distributed them. Then every student will give:

- A. 200
- B. 275
- C. 300
- D. 225

80. A train travelled from Hyderabad to Mumbai at 2:30 PM and another train travelled from Mumbai to Hyderabad at 4:30 PM. The speed of first train is 60 kmph and speed of second train is 80 kmph. When will they meet if the distance between the station is 400 km:

- A. 3:30 PM
- B. 3:45 PM
- C. 4:15 PM

D. 4:30PM

81. Find x if $\left(\frac{21}{5}\right)$ of $\left(\frac{10}{3}\right) + x = 20\%$ of 120

- A. 6
- B. 8
- C. 9
- D. 10

82. A can complete a work in 200 days and B can complete the same work in 300 days. A & B work together for some days and B left now A complete the remaining work in 100 days. Find the number of days B works:

- A. 80 days
- B. 100 days
- C. 120 days
- D. 145 days

83. A sells a item to B at profit of 25%. Latter B sells the item to C at loss of 15% and C sell the same item to D at loss of 20%. If D pays Rs.340 then what is the cost price of B pays:

- A. Rs. 500
- B. Rs. 520
- C. Rs. 550
- D. Rs. 600

84. If the average age of 3 men before 3 year is 45. If 4th man age of 52 year is added then average age of the group:

- A. 45
- B. 48
- C. 49
- D. 50

85. If two trains of length 1000 m and 800 m are moving in the same direction with the speed of 65 kmph and 45 kmph. Then time taken by then to cross each other:

- A. 3 min
- B. 4 min
- C. 4.5 min
- D. 5.4 min

86.If man sells a item and earned 20% profit. If he had bought 90 % of initial cost price and sell 21 less than the selling price then he earned profit of 25%. Now find cost price of the item:

- A. Rs. 250
- B. Rs. 280
- C. Rs. 300
- D. Rs. 320

87.Weight of a and b are in the ratio of 3:5, if the weight of a is increased by 20% then total weight becomes 132 kg with an increase of 10%. Find the percentage increment in weight of b :

- A. 4%
- B. 5%
- C. 8%
- D. 12%

88.If a work is finished by 3 men in 6 days working 4 hours in a day. Then how many men is required to finish the same work in 4 days working 3 hours in a day:

- A. 4 men
- B. 5 men
- C. 6 men
- D. 3 men

89.If $2.25\% \text{ of } 640 - x = 1.5\% \text{ of } 480$, then find x :

- A. 3.6
- B. 4.8
- C. 6
- D. 7.2

90.There are 3 worker P, Q and R are doing a work. If time taken by P is 2 times the time taken by both Q and R and time by both P and R is 11

times the time taken by Q alone. If they take 4 days to complete the work then, time taken by Q to complete the work:

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

91.If two men A and B takes 5 days and 15 days to complete a work. If both worked for one day and A left the work, then how many days is taken by B to complete the remaining work:

- A. 10 days
- B. 11 days
- C. 12 days
- D. 9 days

92.Find x in $145\% \text{ of } 780 + x\% \text{ of } 250 = 1231$

- A. 32
- B. 35
- C. 40
- D. 45

93.A man expends his 30% of income and buy clothe by 60% of remaining. If he saves Rs. 12000 and it is equal to the $\frac{5}{7}$ times the total remaining. Then find his income:

- A. 4.5 lakh
- B. 4.75 lakh
- C. 5 lakh
- D. 6 lakh

94.There are 2 lakh persons in a town. If the birth rate and death rate of the town are 6% and 3%, then what will be the population of town after 2 years:

- A. Rs. 215534
- B. Rs. 211440
- C. Rs. 309432
- D. Rs. 215534

95. 10000 coins are distributed among A, B, C and D in the ratio 1:8:9:7. If 75 coins extra are given to each of them, then the number of coins that A has:

- A. 360
- B. 450
- C. 475
- D. 550

96. A man lent 38800 at the rate of 5% and 6%. After 3 years he received money in the ratio of 5:4. Then find the sum of amounts lent at the rates of 5%:

- A. Rs. 21802
- B. Rs. 43603
- C. Rs. 29203
- D. Rs. 35643

97. If the ratio of students in Math, Physics and Chemistry is 2:3:1. If the scores in Math, Physics and Chemistry are 80%, 50% and 45% respectively. Then the average score of students is:

- A. 59%
- B. 62%
- C. 65%
- D. 70%

98. A man sells an item at a loss of 8%. He gains 2.25% profit if he buys the item at Rs. 164 more than the cost price and sells it at Rs. 1760:

- A. Rs. 1224
- B. Rs. 1024
- C. Rs. 1352
- D. Rs. 1436

99. The cost price of a radio is Rs. 150 and it takes Rs. 10 to repair it. If the selling price is Rs. 300, then find the profit percentage:

- A. 85%
- B. 87.5%
- C. 90%
- D. 75%

100. In a race of 4000 m on a 1000 m round circle. Faster racer catches the slower racer in 5 min. If the ratio of speed of faster to slower is 2:1, then time taken by faster racer to complete the race:

- A. 8 min
- B. 10 min
- C. 12 min
- D. 10.5 min

AFCAT Memory Based Questions: Solution (Set-1)

1. Ans. A.

The 2015 SAFF Championship was the 11th edition of the SAFF Championship, the biennial international men's football championship of South Asia organized by SAFF. It is being held in India from 23 December 2015 to 3 January 2016.

2. Ans. A.

The 2003 Afro-Asian Games, officially known as the First Afro-Asian Games or I Afro-Asian Games was a major international multi-sport event held in Hyderabad, India, from October 24.

3. Ans. B.

Yuvraj Singh became the first cricketer to hit six sixes in an over in a T20I on September 19, 2007.

4. Ans. B.

Chris Evert's name is associated with tennis.

5. Ans. A.

The term 'bully' is related to field hockey. It refers to the set play that is used to restart the game, similar to a drop-ball in a soccer game, from where the infringement took place.

6. Ans. C.

The word chukker is used in a polo game. The polo match is divided into chukkas, each of which lasts for 7 min. with an interval of three min. between each of the chukker.

7. Ans. A.

Hydrogen is known as the lightest gas (7% the density of air) which is very much appropriate gas used for lifting.

8. Ans. B.

Sphygmometer is a medical device that is used to measure blood pressure in the arteries. It consists of a pressure gauge and a nylon or rubber cuff that wraps around the upper arm and inflates to constrict the arteries.

9. Ans. B.

Idiom fly off the handle means to lose one's temper suddenly and unexpectedly.

Hence, option B is the correct answer.

10. Ans. C.

Idiom Not to mince matters means to speak bluntly and directly.

Hence, option C is the correct answer.

11. Ans. A.

Aggravate is the correct antonym for - mitigate.

Attenuate, Lessen and Alleviate are the synonyms for Mitigate.

Mitigate means to make (something wrong) less severe, profound, or painful.

12. Ans. B.

Unappetizing is the most appropriate antonym for luscious.

Audible means - able to be heard.

Lustrous means having lustre; shining.

Exorbitant means overpriced, pricey.

13. Ans. C.

Suggest is the correct synonym for alluded.

Mix means to combine or put together to form one substance or mass.

Conclude means bring or come to an end.

Important means of great significance or value.

14. Ans. D.

Insubstantial is the most appropriate synonym for Flimsy.

Puppet means a movable model of a person or animal that is typically moved either by strings controlled from above or by a hand inside it.

Dramatic means relating to drama or the performance or study of drama.

Clobber means hit (someone) hard.

15. Ans. A.

Outlet is the most appropriate synonym for Vent.

Tackle – the equipment required for a task or sport.

Structure – the arrangement of and relations between the parts or elements of something complex.

Hierarchy - a system in which members of an organization or society are ranked according to relative status or authority.

16. Ans. C.

Relic is the most appropriate synonym for Artifact.

A Device is a thing made or adapted for a particular purpose.

Pawn means a person used by others for their purposes.

Apparatus means the technical equipment or machinery needed for a particular activity or purpose.

17. Ans. B.

Steal is the correct synonym for Pilfer.

Stern means severe and unrelenting.

Overturn means to flip

Captivate means to attract and hold the interest and attention of someone/something.

18. Ans. A.

Conquer is the correct synonym for Vanquish.

Eloquence means fluent or persuasive speaking or writing.

Cogency means the quality of being transparent, logical, and convincing.

Extinct means- having no living members in existence.

19. Ans. D.

Wealthy is the correct synonym for Affluent.

Vindicate means clear (someone) of blame or suspicion.

Influence means the capacity to affect the character or behaviour of someone.

Fluidity means fluency, flow.

20. Ans. B.

Absolve is the correct synonym for exonerate.

Absolve means declare (someone) free from guilt, obligation, or punishment.

Engage, Convict and Charge are the antonyms for Exonerate.

21. Ans. B.

Option B - **Have a personal reason for doing or being involved in something** is the correct meaning of the given idiom.

22. Ans. D.

Option D - **An overall or cursory look at something-** is the correct meaning of the given idiom.

23. Ans. D.

To die is the correct meaning of the given idiom.

Hence, option D is correct.

24. Ans. B.

Triumph is the correct antonym for the given word – Debacle.

Disintegration, fiasco and rout are synonyms for - debacle.

25. Ans. B.

The error is in part B of the sentence, 'Made on' should be replaced by '**made it on**', meaning to arrive (at something or location) successfully.

26. Ans. B.

Sensational – option B is the correct answer to fill in the blank.

Sensational means - causing great public interest and excitement.

27. Ans. D.

Preposition **At**- is the most appropriate answer to fill in the blank.

28. Ans. B.

On – option B is the correct answer to fill in the blank.

29. Ans. D.

Option D - **To be suddenly extremely successful in a place** is the correct meaning of the given idiom.

30. Ans. C.

To remain calm is the correct meaning of the idiom – Keep one's head.

31. Ans. B.

The error is in part B of the given sentence.

Replace 'warm' with 'warmer'. The correct sentence should be- The days in December are warmer than the nights.

32. Ans. A.

Release is the correct antonym for – Entangled.

Trap, Knot and Entwine are the synonyms for entangled.

33. Ans. B.

Uncurious is the correct antonym for – Inquisitive.

Eager means intensely wanting to do or have something.

Intrigued means to arouse the curiosity or interest of; fascinate.

Interested means - having a feeling of interest.

34. Ans. D.

Take - is the correct antonym for – Endow.

Bestow means confer or present.

Provide means make available for use; supply.

Bequeath means leave (property) to a person or other beneficiary by a will.

35. Ans. C.

Frighten is the correct synonym for intimidate.

Encourage means to give support, confidence, or hope to (someone).

Inspire means to encourage and revitalize.

Reassure means to say or do something to remove the doubts or fears of (someone).

36. Ans. D.

Honest is the correct antonym for – Deceit

Dissembling means - conceal or disguise one's true feelings or beliefs.

Trickery means - the practice of deception.

Deception means - the action of deceiving someone.

37. Ans. B.

Uncage is the correct antonym for the given word- Impound.

Restrict, Confine and Seize is the correct synonym for Impound.

38. Ans. D.

Observe is the correct synonym for Contemplate.

Assume means - supposed to be the case, without proof.

Speculation means- the forming of a theory or conjecture without firm evidence.

Overlook means – to fail to notice.

39. Ans. C.

.

40. Ans. B.

Hawaii island is located in the Pacific Ocean. Its capital is Honolulu, located on the island of Oahu.

41. Ans. A.

It's an art museum located at **Dar-ul-Shifa**, on the southern bank of the Musi River in the city of Hyderabad, Telangana.

42. Ans. B.

.

43. Ans. A.

.

44. Ans. A.

.

45. Ans. A.

United Nation was founded in **San Francisco, California, (USA)**

46. Ans. A.

Samudra Gupta (335-375 AD) of the Gupta dynasty is known as the Napoleon of India.

47. Ans. C.

First SAARC Summit - Dhaka, Bangladesh on 7–8 December 1985

48. Ans. A.

.

49. Ans. A.

.

50. Ans. C.

.

51. Ans. A.

.

52. Ans. A.

.

53. Ans. C.

Kazakhstan (Almaty to Nur Sultan)

54. Ans. D.

It was planned by the famous French architect Le Corbusier.

55. Ans. B.

.

56. Ans. A.

All are different creature.

57. Ans. C.

Electron and neutron are different particle and are inside an atom.

58. Ans. D.

A student may be a cricket player or football lover and vice versa.

59. Ans. C.

Dog lives in Kennel and cow lives in Barn.

60. Ans. A.

All are insects except parrot that is a bird.

61. Ans. C.

Entomology: Entomology is the study of insects and their relationship to humans, the environment, and other organisms.

Pisciculture: The breeding, rearing, and transplantation of fish by artificial means is called pisciculture, in other words, fish farming.

Horticulture: Horticulture is the science and art of the development, sustainable production, marketing, and use of high-value, intensively cultivated food and ornamental plants.

Sericulture: Sericulture, or silk farming, is the cultivation of silkworms to produce silk.

62. Ans. B.

All others lays eggs except whale which gives birth.

63. Ans. B.

Sugarcane and Millets are different crop.

64. Ans. C.

A moth is a small insects and tadpole belongs to the family of frog.

65. Ans. B.

Flower and Cloth are different things but may be White.

66. Ans. D.

uncle may be friend of someone and may be parents too.

Parent may be uncle of someone and may friends too.

A friend may be parents and may be uncle too.

67. Ans. B.

As insulin is a type of hormone such that trypsin is a type of enzyme.

68. Ans. B.

All except Record are the brief notation in a language, while record is a detailed account.

Topic ||| Reasoning||Non-verbal||Non Verbal

Linked To Above Question ||| No

Difficulty ||| Medium

Time ||| 60

Marking ||| 1, 0.25

SearchTags ||| AFCAT_II_2020_PYSP

69. Ans. C.

all except Mahaveer are the emperor.

70. Ans. A.

All rock, mountain and breeze are all on earth.

71. Ans. C.

water and nitrogen are different elements. Water contains Hydrogen.

72. Ans. C.

Cloth, color, and merchant all are different.

73. Ans. C.

All the human are animal and all the animal are living being.

74. Ans. A.

let the sides of the triangle are $\frac{1}{2}x, \frac{1}{3}x$ and $\frac{1}{4}x$. So, the perimeter

$$\begin{aligned}\frac{1}{2}x + \frac{1}{3}x + \frac{1}{4}x &= 117 \\ \frac{6x + 4x + 3x}{12} &= 117 \\ x &= 108\end{aligned}$$

So, the longest side $= \frac{1}{2}x = 54$ m

75. Ans. D.

3 years ago, the sum of ages of A, B and C $= 18 \times 3 = 54$ years

Sum of present age of A, B and C $= 54 + 3 \times 3 = 63$ years

And sum of present age of A, B, C and D $= 22 \times 4 = 88$ years

So, the present age of D = $88 - 63 = 25$ years.

76. Ans. D.

let total unit of work = $LCM(90, 40, 12) = 360$ units

Then A works 4 units, B works 9 units and C works 30 units of the work per day.

So, total unit of work done by them in one round

$$A = 4 \times 3 = 12 \text{ units}$$

$$B = 9 \times 3 = 18 \text{ units}$$

$$C = 30 \times 1 = 30 \text{ units}$$

Total work in one round = $12 + 18 + 30 = 60$ units and takes 6 rounds.

So, they will paid Rs.240 in the ratio of $12:18:30$ or $2:3:5$

$$A = \frac{2}{2+3+5} \times 240 = \text{Rs.}48$$

$$B = \frac{3}{2+3+5} \times 240 = \text{Rs.}72$$

$$C = \frac{5}{2+3+5} \times 240 = \text{Rs.}120$$

77. Ans. C.

let the speed of Ashok and Raj are x kmph and y kmph. If Ashok start one hour earlier and Raj can catch him in two hours. Then,

Distance travelled by Ashok in 3 hr. = Distance travelled by Raj in 2 hr.

$$3x = 2y \dots(i)$$

But Ashok increased his speed as Raj speed and takes 5 hr. to complete the distance of 42 km

$$\text{So, } 42 = 5y \Rightarrow y = 8.4 \text{ kmph}$$

And $x = \frac{2}{3}y = 5.6$ kmph

If Raj reduced his speed as Ashok's speed, then time taken by

him $= \frac{42}{5.6} = 7.5$ hr.

So time difference = $7.5 - 5 = 2.5$ hr.

78. Ans. B.

A fresh fruit contains 75% water. It means x kg of fresh fruit contains $\frac{x}{4}$ kg of fruit content and $\frac{3x}{4}$ kg of water content.

Let x kg fresh fruit becomes 500 kg dry fruit.

A dry fruit contains 20% water. Then it have,

Water content = $20\% \text{ of } 500 = 100$ kg.

And fruit content = $500 - 100 = 400$ kg.

We know that fruit content is remains same in fresh and dry fruit.

So, $\frac{x}{4} = 400 \Rightarrow x = 1600$

The weight of fresh fruit is 1600 kg.

79. Ans. B.

each student gets sweet $= \frac{1000}{4} = 250$

And they have already 10% of what they will get.

So, number of sweets they get = $250 \times 110\% = 275$

80. Ans. D.

when train 2 start first have travelled = $60 \times 2 = 120$ km

So, remaining distance = $400 - 120 = 280$ km

Let they meet after t hour when second train have start

$$(60 + 80) \times t = 280$$

$$t = 2 \text{ hr}$$

So, they will meet at 4:30 PM

81. Ans. D.

we have $\left(\frac{21}{5}\right) \text{ of } \left(\frac{10}{3}\right) + x = 20\% \text{ of } 120$

$$\left(\frac{21}{5}\right) \times \left(\frac{10}{3}\right) + x = \frac{20 \times 120}{100}$$
$$x = 24 - 14 = 10$$

82. Ans. A.

let total work = 600 units

A does per day = 3 units

B does per day = 2 units

Both A and B together work per day = 5 units

Let both A and B together work for x days and remaining done by A in 100 days

$$\text{So, } 5x + 2 \times 100 = 600 \Rightarrow x = 80 \text{ days}$$

83. Ans. A.

let the CP of item for A = x

CP of item for B = $1.25x$

CP of item for C = $0.85(1.25x) = 1.0625x$

CP of item for D = $0.8(1.0625x) = 0.85x$

And D pays of Rs.350, so $0.85x = 340 \Rightarrow x = 400$

Now cost price for B = $1.25x = 500$

84. Ans. C.

total age of 3 men before 3 years = $45 \times 3 = 135$

Sum of present age $135 + 3 \times 3 = 144$

Sum of total age of 4 men = $144 + 52 = 196$

Now average age of group = $\frac{196}{4} = 49$ year

85. Ans. D.

the relative speed of the train = $65 - 45 = 20$ kmph

Total length to cross = $1000 + 800 = 1800\text{ m} = 1.8\text{ km}$

Time taken to cross them = $\frac{1.8}{20}\text{ hr} = \frac{1.8}{20} \times 60\text{ min} = 5.4\text{ min}$

86. Ans. B.

let the cost price of the item is x then the selling price is $1.2x$.

Now new cost price = $0.9x$ and new selling price = $1.2x - 21$

And he earned 25% profit, so.

$$1.2x - 21 = 1.25(.9x)$$

$$0.075x = 21$$

$$x = 280$$

87. Ans. B.

Let weight of a and b are $3x$ and $5x$ respectively. then sum of their weight = $8x$

New weight of a = $1.2(3x) = 3.6x$ and new total weight = $1.1(8x) = 132$

$$1.1(8x) = 132 \Rightarrow x = 15$$

Now, old weight of b = $5x = 75$ kg

New weight of a = $3.6 \times 15 = 54$ kg

So new weight of $b = 132 - 54 = 78$

Hence, percentage increment in weight of $b = \frac{78-75}{75} \times 100\% = 4\%$

88. Ans. C.

let a man works one unit of work in 1 hours, so total units of work $= 3 \times 6 \times 4 = 72$

Now 72 units of work is done by x men in 4 days working 3 hours in a day

So, $x \times 4 \times 3 = 72 \Rightarrow x = 6$ men

89. Ans. D.

we have $2.25\% \text{ of } 640 - x = 1.5\% \text{ of } 480$

$$\begin{aligned} \frac{2.25 \times 640}{100} - x &= \frac{1.5 \times 480}{100} \\ 100x &= 1440 - 720 \\ x &= 7.2 \end{aligned}$$

90. Ans. C.

let the time taken by P, Q and R is p , q and r to complete the work alone.

Then, work done by P, Q and R in one day is $\frac{1}{p}$, $\frac{1}{q}$ & $\frac{1}{r}$. And given that,

$$\begin{aligned} \frac{1}{p} &= 2 \left(\frac{1}{q} + \frac{1}{r} \right) && \dots i \\ 11 \left(\frac{1}{q} \right) &= \left(\frac{1}{p} + \frac{1}{r} \right) && \dots ii \end{aligned}$$

From eqn. (i) and eqn. (ii)

$$\begin{aligned} \frac{11}{q} &= \left(\frac{2}{q} + \frac{2}{r} \right) + \frac{1}{r} \\ \frac{9}{q} &= \frac{3}{r} \\ r &= \frac{q}{3} \end{aligned}$$

From eqn. (i) $\frac{1}{p} = 2\left(\frac{1}{q} + \frac{3}{q}\right) = \frac{8}{q} \Rightarrow p = \frac{q}{8}$

Time taken by them together is 4 days

$$\frac{1}{p} + \frac{1}{q} + \frac{1}{r} = \frac{1}{4}$$

$$\frac{8}{q} + \frac{1}{q} + \frac{3}{q} = \frac{1}{4}$$

$$q = 3 \text{ days}$$

91. Ans. B.

let the total work is 15 unit. So, A does 3 units per day and B does 1 unit per day.

So, both does 4 units per day. If both worked for one day, then remaining work = 11 units

Hence, B takes 11 days to complete the work.

92. Ans. C.

$$145\% \text{ of } 780 + x\% \text{ of } 250 = 1231$$

$$\frac{145 \times 780}{100} + \frac{x \times 250}{100} = 1231$$

$$1131 + 2.5x = 1231$$

$$2.5x = 100$$

$$x = 40$$

93. Ans. D.

let the man's income is 1000 units

Expense = 30% of 1000 = 300 units

Clothes = 60% of remaining = 420 units

Total remaining = 280 units

And $\text{saving} = \frac{5}{7}(\text{total remaining}) = 1200$

$$\frac{5}{7}(280 \text{ units}) = 12000$$

$$1 \text{ units} = 600$$

$$1000 \text{ units} = \text{Rs. } 6,00,000$$

94. Ans. B.

The population of the town after t years if r and s is the birth and death rate of the town

$$\begin{aligned} &= P \left(1 + \frac{r}{100}\right)^t \left(1 - \frac{s}{100}\right)^t \\ &= 2 \left(1 + \frac{6}{100}\right)^2 \left(1 - \frac{3}{100}\right)^2 \\ &= 2 \times (1.1236) \times (.9404) \\ &= 2.114390 \end{aligned}$$

95. Ans. C.

Given that 10000 coin are distributed among A,B,C and D are 1:8:9:7

$$\text{Number of coin A have} = \frac{1}{1+8+9+7} \times 10000 = \frac{1}{25} \times 10000 = 400$$

If 75 coin extra is given to each of them, then number of coin that A have
 $= 400 + 75 = 475$

96. Ans. A.

let the money lent P and $(38800-P)$ at the rate of 5% and 6% respectively.

$$\text{Money received at the rate of 5\%} = P \left(1 + \frac{5 \times 3}{100}\right) = 1.15P$$

$$\text{Money received at the rate of 6\%} = (38800 - P) \left(1 + \frac{6 \times 3}{100}\right) = 45784 - 1.18P$$

$$\text{So, } \frac{1.15P}{45784 - 1.18P} = \frac{4}{5}$$

$$4.6P = 228920 - 5.9P$$

$$10.5P = 228920$$

$$P = 21801.90$$

97. Ans. A.

$$\text{the average score} = \frac{2 \times 80 + 3 \times 50 + 1 \times 44}{2 + 3 + 1} = \frac{354}{6} = 59\%$$

98. Ans. D.

let the cost price of the item is Rs. x then selling price is Rs. $0.92x$.

New cost price = Rs. $x + 164$

and new selling price = Rs. $(x + 164) \times (1.0225) = \text{Rs. } 1760$

$$x + 164 = \frac{1760}{1.0225} = 1721.436$$

$$x = \text{Rs. } 1436$$

99. Ans. B.

Total expenditure of Radio = Rs. 150 + Rs. 10 = Rs. 160

Profit = Rs. 300 - Rs. 160 = Rs. 140

$$\text{Profit percentage} = \frac{140}{160} \times 100\% = 87.5\%$$

100. Ans. B.

let the speed of faster racer and slower racer is $2x$ and x .

By assuming the slower racer to standstill the relative speed of slower racer $2x - x = x$

Then he covers one round in 5 min.

$$\text{So, } x = \frac{1000}{5} = 200 = \text{speed of slower racer}$$

Then, speed of faster racer = $2x = 400$

Hence time taken by faster race to complete the race $= \frac{4000}{400} = 10 \text{ min}$