

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.

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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.

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43. Ans. A.

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44. Ans. A.

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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.

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49. Ans. A.

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50. Ans. C.

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51. Ans. A.

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52. Ans. A.

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53. Ans. C.

Kazakhstan (Almaty to Nur Sultan)

54. Ans. D.

It was planned by the famous French architect Le Corbusier.

55. Ans. B.

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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

So, $5x + 2 \times 100 = 600 \Rightarrow x = 80$ 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 $2.25\% \text{ of } 640 - x = 1.5\% \text{ of } 480$

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

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,

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

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

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

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 $= \frac{4000}{400} = 10 \text{ min}$

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