

AFCAT – 1/2020

DAY – 4

- 1) If $(a - b) = 4$ and $ab = 45$, find the value of $(a^3 - b^3)$
- a) 604
b) 370
c) 253
d) 199
- 2) In an examination, there were 1000 boys and 800 girls. 60% of the boys and 50% of the girls passed. Find the % of candidates failed?
- a) 50%
b) 42.42%
c) 48%
d) 44.44%
- 3) 18 buckets of water fill a tank when the capacity of each bucket is 18 litres. How many buckets will be needed to fill the same tank, if the capacity of the bucket is 12 litres?
- a) 12
b) 13.5
c) 24
d) Cannot be determined due to insufficient data
- 4) A car travels the first one – third of a certain distance with a speed of 10km/hr, the next one – third distance with a speed of 20km/hr and the last one – third distance with a speed of 60km/hr. the average speed of the car for the whole journey is
- a) 18km/hr
b) 24km/hr
c) 30km/hr
d) 36km/hr
- 5) A train travels at a speed of 40km/hr and another train at a speed of 20m/sec. What is the ratio of speed of the first train to that of the second train?
- a) 2:1
b) 5:9
c) 5:3
d) 9:5
- 6) If a sum of money at a certain rate of simple interest per year doubles in 5 years and at a different rate of simple interest per year becomes three times in 12 years, then the difference in the two rates of simple interest per year is
- a) 2%
b) 3%
c) $3\frac{1}{3}\%$
d) $4\frac{1}{3}\%$
- 7) When an article is sold at 20% discount, the selling price is Rs 24. What will be the selling price when the discount is 30%
- a) 25
b) 23
c) 21
d) 20



- 8) A person selling an article for Rs 96 finds that his loss percent is one – fourth of the amount of rupees that he paid for the article. What can be the cost price?
- Only Rs 160
 - Only Rs 240
 - Either Rs 160 or Rs 240
 - Neither Rs 160 or Rs 240

- 9) In a mixture of milk and water of volume 30 litres, the ratio of milk and water is 7:3. The quantity of water to be added to the mixture to make the ratio of milk and water 1:2 is
- 30
 - 32
 - 33
 - 35

- 10) If 50% of $(x - y) = 40\%$ of $(x + y)$, then what percent of x is y ?
- $10\frac{1}{9}\%$
 - $11\frac{1}{9}\%$
 - $13\frac{1}{9}\%$
 - $21\frac{1}{9}\%$

From questions 11 – 13, select the correct Antonym of the words, from the given alternatives:

- 11) CAJOLE
- Nestle
 - Secede
 - Bully
 - Moisten

12) PREDILECTION

- Oblivion
- Objectivity
- Aversion
- Defeat

13) PURGATORY

- Reward
- Celestial
- Flawless
- Proximity

From questions 14 – 15, select the correct Synonyms of the words, from the given alternatives:

14) DECEIT

- Simplicity
- Crentihty
- Sincerity
- Dishonesty

15) OSTRACISE

- Cut off
- Take away
- Include
- Expedite

- 16) If 3 is subtracted from the middle digit of each of the following numbers and then the positions of the digits are reversed, which of the following will be the last digit of the middle number after they are arranged in descending order?

589 362 554 371 442

- 2
- 3
- 4
- 5



17) If the letters in each of the following words are first rearranged in the alphabetical order and then the groups of letters so formed are rearranged as in a dictionary, which word would come second in the order?

- a) Road
- b) Deaf
- c) Lack
- d) Calm

18) In a certain code language '526' means 'Sky is blue'; '24' means 'blue colour' and '436' means 'colour is fun'. Which of the following digit stand for 'fun'?

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

19) Anil introduces Rohit as the son of the only brother of his father's wife. How is Rohit related to Anil?

- a) Cousin
- b) Son
- c) Uncle
- d) Son-in-law

20) A dice numbered from 1 to 6 in different ways. If 1 is adjacent to 2, 4, 6 then which of the following statements is necessarily true?

- a) 2 is opposite to 6
- b) 1 is adjacent to 3
- c) 3 is adjacent to 5
- d) 3 is opposite to 5

ALL THE BEST

JAI HIND

