

## AFCAT – 1/2020

### DAY – 12

- 1) Simplify  $999 \frac{998}{999} \times 999 + 999$
- 999997
  - 999998
  - 99998
  - 999994
- 2)  $\left(\frac{x^a}{x^b}\right)^{a+b} \left(\frac{x^b}{x^c}\right)^{b+c} \left(\frac{x^c}{x^a}\right)^{c+a}$
- 1/2
  - 2
  - 0
  - 1
- 3) In a class of 52 students the number of boys is two less than the number of girls. Average weight of the boys is 42kg, while the average weight of all the 52 students is 40kg. Approximately what is the average weight of the girls?
- 41 kg
  - 39 kg
  - 40 kg
  - 38 kg
- 4) When 918 rupees was divided to A, B and C, for every 6 rupees given to A, B gets 7 rupees and C gets 5 rupees. Find the amount that C gets:
- Rs 250
  - Rs 255
  - Rs 260
  - Rs 270
- 5) 6 litres of milk and water mixture has 75% milk in it. How much milk should be added to the mixture to make it 90% pure?
- 10
  - 8
  - 9
  - 12
- 6) If 60% of students in a school are boys and the total number of girls in the school is 460, find the number of boys in the school.
- 680
  - 690
  - 700
  - 720
- 7) A defective briefcase costing 800 rupees is being sold at a loss of 8%. If the price is further reduced by 5%, find its approximate selling price?
- Rs 600
  - Rs 650
  - Rs 700
  - Rs 725

8) What is the maximum percentage discount that a merchant can offer on her marked price so that she ends up selling at no profit or loss. If she had initially marked her goods up by 50%?

- a) 16.67%
- b) 20%
- c) 50%
- d) 33.33%

9) In how many years will a sum of money double itself at 5% rate of interest?

- a) 18 years
- b) 20 years
- c) 22 years
- d) 15 years

10) Divide Rs 10230 into two parts such that the first part after 10 years is equal to the second part after 7 years, compounded interest being 20% per annum compounded yearly.

- a) Rs 4150 : Rs 6080
- b) Rs 3950 : Rs 6280
- c) Rs 3750 : Rs 6480
- d) Rs 3550 : Rs 6680

In the following passage there are some numbered blanks. Fill in blanks by selecting the most appropriate word for each blank from the given options.

In tropical countries, certain crops are grown \_\_\_(11)\_\_\_ the year. These countries have \_\_\_(12)\_\_\_ rainfall for the crops. They also

have plenty of sunshine what \_\_\_(13)\_\_\_ the crops. More food than is \_\_\_(14)\_\_\_ can be grown in these places. But there are other countries in the world where it is \_\_\_(15)\_\_\_ to grow crops.

11)

- a) Along
- b) Over
- c) Through out
- d) Across

12)

- a) Sufficient
- b) Little
- c) Plenty
- d) Inadequate

13)

- a) Opens
- b) Gathers
- c) Destroys
- d) Ripens

14)

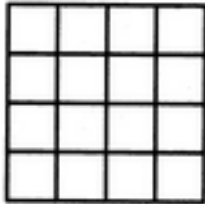
- a) Cooked
- b) Required
- c) Planted
- d) Used

15)

- a) Difficult
- b) Rough
- c) Smooth
- d) Impossible

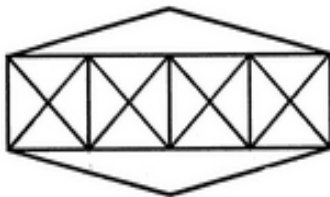


16) Count the number of squares in the given figure.



- a) 32
- b) 30
- c) 29
- d) 28

17) Count the number of triangles and squares in the given figure.



- a) 36 triangles, 7 squares
- b) 38 triangles, 9 squares
- c) 40 triangles, 7 squares
- d) 42 triangles, 9 squares

18) Choose the set of figures which follows the given rule.

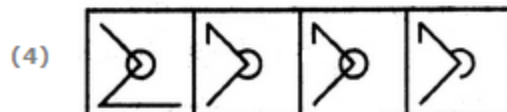
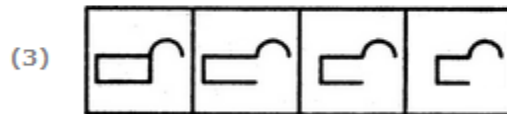
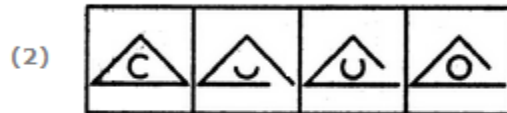
**Rule:** Closed figures losing their sides and open figures gaining their sides.



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

19) Choose the set of figures which follows the given rule.

**Rule:** Closed figures become more and more open and open figures become more and more closed.



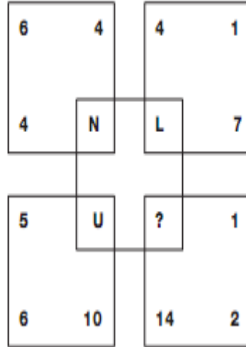
- a) 1
- b) 2
- c) 3
- d) 4



20)

- c) T
- d) S

Which letter replaces the question mark?



- a) M
- b) Q

**ALL THE BEST**

**JAI HIND**

