



Placement Classes

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AMCAT APTITUDE QUESTIONS

SET - 3

Question 1 :- Choose the correct answer.

The value of $21/2$ upto three places of decimal is

Option 1 : 1.41

Option 2 : 1.412

Option 3 : 1.413

Option 4 : 1.414

Answer :- D

Question 2 :- Choose the correct answer.

The value of $(8-25- 8-26)$ is:

Option 1 : $7 \times 8-25$

Option 2 : $7 \times 8-26$

Option 3 : $8 \times 8 - 26$

Option 4 : None of these

Answer :- B

Question 3 :- Choose the correct answer.

If $22n - 1 = (1 / 8n - 3)$ then the value of n is:

Option 1 : 3

Option 2 : 2

Option 3 : 0

Option 4 : -2

Answer :- B

Question 4 :- Choose the correct answer.

If $2x = 3y = 6 - z$, then $(1/x + 1/y + 1/z)$

is equal to:

Option 1 : 0

Option 2 : 1

Option 3 : $3/2$

Option 4 : -0.5

Answer :- A

Question 5 :- Choose the correct answer.

What is the remainder when 1723 is divided by 16?

Option 1 : 0

Option 2 : 1

Option 3 : 2

Option 4 : 3

Answer :- B

Question 6 :- Choose the correct answer.

What will be the remainder when 1336 is divided by 2196?

Option 1 : 0

Option 2 : 1

Option 3 : 12

Option 4 : 2195

Answer :- B

Question 7 :- Choose the correct answer.

The roots of the equation $4x^3 - 2x + 2 + 32 = 0$ would include

Option 1 : 2, 3

Option 2 : 1, 2, 3

Option 3 : 1, 2

Option 4 : 4, 8

Answer :- A

Question 8 :- Choose the correct answer.

If $ax = b$, $by = c$ and $cz = a$, then the value of xyz is:

Option 1 : 0

Option 2 : 1

Option 3 : 2

Option 4 : 3

Answer :- B

Question 9 :- Choose the correct answer.

If $x = 1 + \frac{21}{2}$ and $y = 1 - \frac{21}{2}$, then $x^2 + y^2$ is -

Option 1 : 2

Option 2 : 3

Option 3 : 6

Option 4 : 0

Answer :- C

Question 10 :- Choose the correct answer.

If $4x+3 = 2x+7$, then the value of x is:

Option 1 : 3

Option 2 : 2

Option 3 : 1

Option 4 : None of these

Answer :- C

Question 11 :- Choose the correct answer.

$2x+y = 2*(2)^{1/2}$ and $2x-y = 2^{1/2}$, the value of x is:

Option 1 : 1

Option 2 : 2

Option 3 : 3

Option 4 : 4

Option 5 : None of these

Answer :- A

Question 12 :- Choose the correct answer.

If $x = 8$, $y = 27$, the value of $(x^{4/3} + y^{2/3})^{1/2}$ is:

Option 1 : 5

Option 2 : 6

Option 3 : 7

Option 4 : 8

Option 5 : None of these

Answer :- A

Question 13 :- Choose the correct answer.

If $xy = yx$ and $x = 2y$, the value of y is:

Option 1 : 1

Option 2 : 2

Option 3 : 3

Option 4 : 4

Option 5 : None of these

Answer :- B

Question 14 :- Choose the correct answer.

If $2x * 3y = 18$ and $22x * 3y = 36$, the value of x is:

Option 1 : 0

Option 2 : 1

Option 3 : 2

Option 4 : 3

Option 5 : None of these

Answer :- B

Question 15 :- Choose the correct answer.

What is the value of $6-2$?

Option 1 : $1/36$

Option 2 : 36

Option 3 : -36

Option 4 : None of these

Answer :- A

Question 16 :- Choose the correct answer.

What is the value of $0-10$?

Option 1 : 0

Option 2 : 1

Option 3 : -10

Option 4 : None of these

Answer :- D

Question 17 :- Choose the correct answer.

What is the value of 251.5 ?

Option 1 : 325

Option 2 : 32.5

Option 3 : 125

Option 4 : None of these

Answer :- C

Question 18 :- Choose the correct answer.

What is the value of $(0.027)^{1/3}$?

Option 1 : 0.3

Option 2 : 0.03

Option 3 : 0.003

Option 4 : None of these

Answer :- A

Question 19 :- Choose the correct answer.

What is the value of $(0.016)^{1/4}$?

Option 1 : 0.2

Option 2 : 0.02

Option 3 : 0.002

Option 4 : None of these

Answer :- D

Question 20 :- Choose the correct answer.

Walking $\frac{6}{7}$ th of his usual speed, a man is 12 minutes too late. The usual time taken by him to cover that distance is:

Option 1 : 1 hour

Option 2 : 1 hr 12min

Option 3 : 1 hr 15 min

Option 4 : 1 hr 20 min

Answer :- B

Question 21 :- Choose the correct answer.

A boat running upstream takes 8 hours 48 minutes to cover a certain distance, while it takes 4 hours to cover the same distance running downstream. What is the ratio between the speed of the boat and speed of the water current respectively ?

Option 1 : 2 : 1

Option 2 : 3 : 2

Option 3 : 8 : 3

Option 4 : Cannot be determined

Option 5 : None of these

Answer :- C

Question 22 :- Choose the correct answer.

In a 100 m race, A can beat B by 25 m and B can beat C by 4 m. In the same race, A can beat C by:

Option 1 : 21 m

Option 2 : 26 m

Option 3 : 28 m

Option 4 : 29 m

Answer :- C

Question 23 :- Choose the correct answer.

In a family, the father took $\frac{1}{5}$ of the cake and he had 4 times as much as others had, then the family members are:

Option 1 : 16

Option 2 : 17

Option 3 : 18

Option 4 : None of these

Answer :- B

Question 24 :- Choose the correct answer.

The price of sugar is increased by 25%. In order not to increase the expenditure a lady must reduce her consumption by:

Option 1 : 25%

Option 2 : 20%

Option 3 : 30%

Option 4 : None of these

Answer :- B

Question 25 :- Choose the correct answer.

I read $\frac{3}{8}$ of a book on one day, and $\frac{4}{5}$ of the remainder on another day. If now there were 30 pages unread, the book contains:

Option 1 : 240 pages

Option 2 : 230 pages

Option 3 : 340 pages

Option 4 : 140 pages

Option 5 : None of these

Answer :- A

Question 26 :- Choose the correct answer.

In an examination, 70% of students passed in physics, 65% in chemistry, 27% failed in both subjects. The percentage of students who passed is:

Option 1 : 66%

Option 2 : 62%

Option 3 : 69%

Option 4 : None of these

Answer :- B

Question 27 :- Choose the correct answer.

Rakesh buys a scooter worth Rs. 10,000. He sells it to Mohan at a profit of 10%. If after sometime Mohan sells it back to Rakesh at a loss of 10%, then totally:

Option 1 : Rakesh loses Rs. 100

Option 2 : Rakesh loses Rs. 1100

Option 3 : Rakesh gains Rs. 100

Option 4 : Rakesh gains Rs. 1100

Option 5 : None of these

Answer :- D

Question 28 :- Choose the correct answer.

The list price of an electric iron is Rs. 300. If two successive discounts of 15% and 10% are allowed, its selling price will be:

Option 1 : Rs. 229.50

Option 2 : Rs.231.50

Option 3 : Rs.232.50

Option 4 : Rs. 234.50

Option 5 : None of these

Answer :- A

Question 29 :- Choose the correct answer.

The rate of compound interest at which a sum of Rs. 8000 amounts to Rs. 8820 in 2 years, is:

Option 1 : 5%

Option 2 : 4%

Option 3 : 6%

Option 4 : 7%

Option 5 : None of these

Answer :- A

Question 30 :- Choose the correct answer.

A car is 250 metres behind the bus. The car and bus are moving with speed 60 km/hr and 35 km/hr respectively. The car will be ahead of bus by 250 metres in:

Option 1 : 37 seconds

Option 2 : 48 seconds

Option 3 : 72 seconds

Option 4 : 68 seconds

Option 5 : None of these

Answer :- C

Question 31 :- Choose the correct answer.

Mohan walks a certain distance and rides back in 6 hours and 15 minutes. If he walks both ways he takes 7 hours and 45 minutes. If Mohan rides both ways the time which he will take will be:

Option 1 : 4 hours

Option 2 : $19/4$ hours

Option 3 : $9/2$ hours

Option 4 : $17/4$ hours

Option 5 : None of these

Answer :- B

Question 32 :- Choose the correct answer.

Population of a village is eight thousand. If 6% men and 10% women are added, population becomes 8,600, then the number of men in the village was:

Option 1 : 4800

Option 2 : 5000

Option 3 : 5060

Option 4 : 6000

Answer :- B

Question 33 :- Choose the correct answer.

If 15 oxen or 20 cows can eat the grass of a field in 80 days, then in how many days will 6 oxen and 2 cows eat the same grass?

Option 1 : 40

Option 2 : 60

Option 3 : 100

Option 4 : 160

Answer :- D

Question 34 :- Choose the correct answer.

At a certain party the ratio of gents and ladies was 1 : 2. But when 2 gents and 2 ladies left the party, the ratio became 1 : 3. How many people were initially

present in the party?

Option 1 : 12

Option 2 : 15

Option 3 : 18

Option 4 : 24

Answer :- A

Question 35 :- Choose the correct answer.

Prabodh bought 30 kg of rice at the rate of Rs. 8.50 per kg and 20 kg of rice at the rate of Rs. 9.00 per kg. He mixed the two. At what price (App.) per kg should he sell the mixture in order to get 20% profit?

Option 1 : Rs. 9.50

Option 2 : Rs. 8.50

Option 3 : Rs. 10.50

Option 4 : Rs. 12.00

Answer :- C

Question 36 :- Choose the correct answer.

The cash price of a television is Rs. 4022. A customer paid Rs. 1500 in cash and promised to pay the remaining money in 3 monthly equal instalments at the rate of 5% per annum compound interest. What is the value of each instalment?

Option 1 : Rs. 926.10

Option 2 : Rs. 903.33

Option 3 : Rs. 928.30

Option 4 : Rs. 940.50

Answer :- A

Question 37 :- Choose the correct answer.

The population of a village decreases at the rate of 20% per annum. If its population 2 years ago was 10000, what is its present population?

Option 1 : 6000

Option 2 : 10000/144

Option 3 : 6400

Option 4 : 7600

Answer :- C

Question 38 :- Choose the correct answer.

A certain sum of money at simple interest becomes Rs. 1062 in 2 years and Rs. 1183.50 in $3\frac{1}{2}$ years.

What is rate of interest per annum?

Option 1 : 7%

Option 2 : 6%

Option 3 : 9%

Option 4 : 5%

Answer :- C

Question 39 :- Choose the correct answer.

If the simple interest on a sum at 4% per annum for 2 years is Rs. 80, then the compound interest on the same sum for the same period is:

Option 1 : Rs. 86.80

Option 2 : Rs. 86.10

Option 3 : Rs. 88.65

Option 4 : Rs. 81.60

Answer :- D

Question 40 :- Choose the correct answer.

A man covers a distance of 1200 km in 70 days resting 9 hours a day, if he rests 10 hours a day and walks with speed $1\frac{1}{2}$ times of the previous in how many days will he cover 750 km?

Option 1 : 30

Option 2 : 31.25

Option 3 : 31

Option 4 : 33

Answer :- B

Question 41 :- Choose the correct answer.

A train leaves Delhi at 6.00 a.m. and reaches Agra at 10.00 a.m. Another train leaves Agra at 8.00 a.m. and reaches Delhi at 11.30 a.m. At what time do the two trains cross each other if the distance between Delhi and Agra is 200 km?

Option 1 : 8.45 a.m.

Option 2 : 8.56 a.m.

Option 3 : 9.20 a.m.

Option 4 : 9.56 a.m.

Answer :- B

Question 42 :- Choose the correct answer.

How many litres of a 90% solution of concentrated acid needs to be mixed with a 75% solution of concentrated acid to get a 30 L solution of 78% concentrated acid?

Option 1 : 24 L

Option 2 : 22.5 L

Option 3 : 6 L

Option 4 : 17.5 L

Answer :- C

Question 43 :- Choose the correct answer.

Rajiv has a number x in his mind. He finds out that the square of x is less than x . What is the range of x ?

Option 1 : x is more than 0

Option 2 : x is less than 1

Option 3 : x is more than 0, but less than 1

Option 4 : This is not possible

Answer :- C

Question 44 :- Choose the correct answer.

What is the value of: $x^{1.5} * x^2$?

Option 1 : x^3

Option 2 : $x^{3.5}$

Option 3 : $\times 0.75$

Option 4 : None of these

Answer :- B

Question 45 :- Choose the correct answer.

What is the value of: $(33 \times 812 \times 20) / 95$?

Option 1 : 0

Option 2 : 3

Option 3 : $1/3$

Option 4 : None of these

Answer :- B

Question 46 :- Choose the correct answer.

What number should be divided by $(0.81)^{1/2}$ to give the result as 81?

Option 1 : 9

Option 2 : 81

Option 3 : 72.9

Option 4 : 0.9

Answer :- C

Question 47 :- Choose the correct answer.

If $6(x-3) = 36(x-5)$, then what is the value of x?

Option 1 : 2

Option 2 : No value will agree

Option 3 : -1

Option 4 : 7

Answer :- D

Question 48 :- Choose the correct answer.

Which is the largest among $21/2$, $51/3$ and $41/4$?

Option 1 : $(2)^{1/2}$

Option 2 : $51/3$

Option 3 : $41/4$

Option 4 : None of these

Answer :- B

Question 49 :- Choose the correct answer.

What is the value of $10009/1004$?

Option 1 : 1005

Option 2 : 105

Option 3 : 1019

Option 4 : None of these

Answer :- C

Question 50 :- Choose the correct answer.

In how many different ways can the letters of the word 'OPTICAL' be arranged so that the vowels always come together ?

Option 1 : 120

Option 2 : 720

Option 3 : 4320

Option 4 : 2160

Option 5 : None of these

Answer :- B