

GAT-C Agriculture, Veterinary, Biological & Related Science Quantitative

Sr	Questions	Answers Choice
1	If the radius of the circle is decreased by 20%, what happens the area ?	<p>A. 10% increase B. 20% decrease C. 80% increase D. 36% decrease</p>
2	<p>Clarinet reeds often lose their freshness - become less responsive - after a few weeks of intense use. One clarinetist has hypothesized that a buildup of oil, rather than changes in the material properties of the reed, were responsible.</p> <p>Q: Which of the following investigations is most likely to yield significant information that would help to evaluate the hypothesis?</p>	<p>A. Determining what kind of wood is used to make the reeds used by jazz clarinetists B. Determining whether jazz clarinetists make their reeds lose their freshness faster than do classical clarinetists C. Determining whether identical lengths of reeds, of the same thickness, lose their freshness at different rates when put onto various brands of clarinets D. Determining whether rubbing various substances on the new reed causes them to lose their freshness.</p>
3	Question Image	<p>A. 35 B. 25 C. 10 D. 29</p>
4	The average of five numbers is 54. If three of the numbers are 26, 28 and 30, what is the average of the other two ?	<p>A. 91 B. 93 C. 54 D. 186</p>
5	The total number of eighths in $3\frac{3}{4}$ is:	<p>A. 15 B. 54 C. 30 D. 24</p>
6	The first five multiples of 17 are:	<p>A. 0, 1, 17, 34, 51 B. 17, 34, 51, 68, 85 C. 38, 57, 76, 95, 114 D. None of these</p>
7	The greatest number which divides 2400 and 3600 leaving 48 and 60 respectively, as remainder is:	<p>A. 9 B. 7 C. 17 D. 10</p>
8	In a school of 820 students, 55% are boys. The number of girls and the number of boys are:	<p>A. 369 boys, 451 girls B. 281 boys, 539 girls C. 539 boys, 281 girls D. 451 boys, 369 girls</p>
9	<p>Activity levels of the green iguana vary in cycles that are repeated every 24 hours. It is logical to assume that alteration in the intensity of incident light is the stimulus that controls these daily biological rhythms. But there is much evidence to contradict this hypothesis.</p> <p>Q: Which of the following, if known, is evidence that contradicts the hypothesis stated above?</p> <p>Unreported underground industries get no productivity support from the government. On the other hand, some industries that are run entirely by self-employed industrialists are</p>	<p>A. The temperature of the green iguana varies throughout the day, with the maximum occurring in the late afternoon and the minimum in the morning B. While some animals, such as the rabbit, are much more active during the day, others, such as moles, show greater activity at night C. When animals are transported from one time zone to another, their daily biological rhythms adjust in a matter of days to the periods of sunlight and darkness in the new zone D. Even when exposed to constant light intensity around the clock, some iguanas display rates of activity that are much greater during daylight hours than at night.</p> <p>A. All self-employed industries are under ground B. Underground industries should be banned because of their low</p>

10 the other hand, some industries that are run entirely by self-employed industrialists are included in national productivity measures.
Q: From the information given above, it can be validly concluded that

productivity
C. there are at least some industries other than those run entirely by self-employed industrialists that are underground industries
D. Underground industries should be merged in large industries

11 A rectangular field which is twice as long as it is broad, has an area of 14450 m^2 , what is its perimeter ?

A. 85 m
B. 510 m
C. 165 m
D. 170 m

12 Which of the following is the average of $x^4 - 20$, $40 - x^4$, and $3x + 4$?

A. $x^4 - 24$
B. $x + 8$
C. $x^4 + 3x + 24$
D. $x + 24$

Direction: In the following type of question, each consists of two quantities, one in column A and one in column B. You must compare two quantities and on the answer sheet fill in.

A. If the quantity in column A is greater.
B. If the quantity in column B is greater.
C. If the two quantities are equal.
D. If the relationship cannot be determined from the information given.

A. A
B. B
C. C
D. D

13 Notes: Sometimes, in certain questions, information concerning one or both the quantities to be compared is centered above the two columns. A symbol that in both columns represents the same thing in column A as it does in column B.

Column A

The average (arithmetic mean) of 15,215,415

Column B

The average (arithmetic mean) of 0,15,215,413

A. Area of ΔPOR >
Area of ΔORS
B. Area of ΔPOR = Area of ΔORS
C. Area of ΔORS >
Area of ΔPOR
D. $\Delta \text{POR} \equiv \Delta \text{ORS}$

14 Question Image

A. If the quantity in column A is greater.
B. If the quantity in column B is greater.
C. If the two quantities are equal.
D. If the relationship cannot be determined from the information given.

A. A
B. B
C. C
D. D

Direction: In the following type of question, each consists of two quantities, one in column A and one in column B. You must compare two quantities and on the answer sheet fill in.

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Column A

3/13 of 45

Column B

45/13 of 3

A. A
B. B
C. C
D. D

16 Question Image

A. 35
B. 45
C. 55
D. 40

17 A businessperson started a business with a capital of Rs. 80,000. His first year accumulated profit was 10% and second year profit was 20%. What was the total amount after second year?

A. 105600
B. 201200
C. 50,000
D. 100050

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A. A
B. B
C. C
D. D

Column A
The average (arithmetic mean) of x,y,z and 39

Column B
40

19 Four people are asked to stand in a straight line. In how many different orders can they line up?

A. 12
B. 16
C. 24
D. 6

20 The number p is 4 more than 3 times the number r. The sum of p and r is 10.Which of the following pairs of equations could be used to find the values of p and r?

A. $p = 3r + 4$
B. $p = 3r + 4$
C. $p = 3(r + 4)$
D. $p + 4 - 3r$