

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

Sr	Questions	Answers Choice
1	<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. Q: Which of the following, if known, is evidence that contradicts the hypothesis stated above?</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</p> <p>B. While some animals, such as the rabbit, are much more active during the day, others, such as moles, show greater activity at night</p> <p>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</p> <p>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>
2	<p>The slope of the line passing through <math>(-b, b)</math> and <math>(3b, a)</math> is 1 and <math>b \neq 0</math>, which of the following is an expression for <math>a</math> in terms of <math>b</math>?</p>	<p>A. <math>1/4b</math>      B. <math>3b</math>      C. <math>5b</math>      D. <math>2b</math>      E. <math>4b</math></p>
3	<p>If <math>5/6n = 60</math>, then <math>1/6n = ?</math></p>	<p>A. 8      B. 10      C. 12      D. 50</p>
4	<p>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.</p> <p>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.</p> <p>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.</p> <p><b>Column A</b>  <math>(\sqrt{7})^2 + (\sqrt{7})^3</math>  <b>Column B</b>  <math>1/\sqrt{7}</math></p>	<p>A. A      B. B      C. C      D. D</p>
5	<p>Which of the following is the average of <math>x^4 - 20</math>, <math>40 - x^4</math>, and <math>3x + 4</math>?</p>	<p>A. <math>x&lt;/i&gt;&lt;sup&gt;4&lt;/sup&gt; - 24</math>      B. <math>x&lt;/i&gt; + 8</math>      C. <math>x&lt;sup&gt;4&lt;/sup&gt; + 3&lt;i&gt;x&lt;/i&gt; + 24</math>      D. <math>x&lt;/i&gt; + 24</math></p>
6	<p>The average height of five men is 68 inches. If one man is 70 inches tall and three others have an average of 67 inches, the height of the fifth man, in inches, is</p>	<p>A. 68      B. 69      C. 70      D. 71</p>
7	<p>In an <i>in vitro</i> study, 160 white cats were injected with saltX. 160 other white cats were injected with placebo. In two weeks, 39% of the white cats, who were injected with SaltX showed symptoms of Kay fever? Hence, it can be concluded that Kay fever is caused by some elements similar to the elements in SaltX. Q: Which of the following statements would most seriously weaken the above discussion?</p>	<p>A. People suffering from Kay fever are the victims of the golden viper of Sindh      B. One among the 160 white cats had already showed symptoms of Kay fever prior to the experiment      C. The natural habitats of white cats does not contain any of the elements found in Salt X      D. The 160 white cats used in the</p>

		experiment were kept isolated from each other
8	A circle whose center is at (3, 4) passes through the origin. Which of the following points is not on the circle ?	<p>A. (-1, 3)      B. (-1, 1)      C. (0, 0)      D. (7, 7)</p>
9	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?	<p>A. 105600      B. 201200      C. 50,000      D. 100050</p>
10	How many different 4 person teams can be made from a group of 9 players?	<p>A. 3,024      B. 1,512      C. 378      D. 254      E. 126</p>
11	<p>In an examination, Rizwana has more marks than that of Fauzia. Shugufa has fewer marks than that of Zahid. Fauzia and Abid have more marks than that of Shugufa.</p> <p>Q: If the above is true, which of the following must also be true?</p>	<p>A. Fauzia has fewer marks than that of Shugufa      B. Rizwana has more points than that of Shugufa      C. Fauzia has fewer points than that of Zahid      D. Zahid has more points than that of Rizwana</p>
12	Question Image	<p>A. 28 - 2&lt;math&gt;x&lt;/math&gt;      B. 4(14 - 4&lt;math&gt;x&lt;/math&gt;)      C. 48 - 3&lt;math&gt;x&lt;/math&gt;      D. 7(6 - 3&lt;math&gt;x&lt;/math&gt;)</p>
13	<p>Abdullah Sheikh, senior sales officer in a multinational, has trained many top salespeople in his company, including seven who have become the top salespersons in their regions and three who have won the top salesperson award. Although there is an art to selling, Mr. Sheikh's success at training top salespeople shows that the skills required to become a top salesperson can be both taught and learned.</p> <p>Q: The argument above depends on which one of the following assumptions?</p>	<p>A. Mr. Sheikh does not teach the hard-sell method. Nor does he teach the "I'll-be-your friend" method. Instead, he stresses the professional-client relationship      B. More than 50% of the people trained by Mr. Sheikh went on to become successful sales people      C. One of the successful salespeople who trained under Mr. Sheikh was not an accomplished salesperson before learning the Sheikh's Method      D. There is a large and expanding industry dedicated to training salespeople</p>
14	Each man contributed dollars equal to the number of women and each woman contributed dollars equal to the number of men in a group of 120 group of 120 people, the total amount collected was Rs. 7200. How many men were there in the group?	<p>A. 72      B. 60      C. 40      D. 80      E. None of these</p>
15	If $p^2 - q^2 = 48$ and $p - q = 12$ , what is the average of p and q ?	<p>A. 4      B. 6      C. 2      D. 12</p>
16	What percent of p is q ?	<p>A. <math>q/p</math>      B. <math>p/q</math>      C. <math>100q/p</math>      D. <math>100p/q</math></p>
17	<p>Certain upgrades need to be made on each of the computers owned by Sami Publishers. The work of upgrading their 20 computers is mentally taxing. Employees are using the computers during the day, making it difficult for the computer technician to coordinate the block of time needed to work on each computer. Therefore, the most efficient time to upgrade the computers is between ten o'clock p.m. and eight o'clock a.m. when the computers are free.</p> <p>Q: Which of the following, if true, argues most strongly against the view that upgrades could be done more efficiently by scheduling them at night?</p>	<p>A. Energy costs in businesses are greatly lower at night than they are during the day      B. More blackouts occur between midnight and eight o'clock in the morning than at any other time      C. Over the course of a year, the company's computers will require periodical checks and upkeep      D. Mental alertness is lower in the late night than during the day, especially in people not accustomed to working at night</p>
18	If A(3, 2) and B(7, 2) are two vertices of a rectangle, which of the following could not be the other vertices of that rectangle ?	<p>A. (3, 7)      B. (7, 3)      C. (3, -7)      D. (-3, 7)</p>
19	The solution of the inequality $-1 < 5x - 6 \leq 4$ in whole number is	<p>A. 1      B. 2      C. 4      D. 5</p>

20

Ayesha and Bisma together have \$20. Bisma and Adnan together have \$16. Ayesha and Adnan together have \$24. What is the smallest number of dollars that any girl has alone?

- A. 4
- B. 6
- C. 10
- D. 24