GAT-B Arts, Humanities & Social Science Quantitative

Sr	Questions	Answers Choice
1	If $P^2 + 5 = 22$, then $P^2 - 5 =$	A. 12 B. 17 C. 39 D. 144
2	In many hospitals, more and more monitoring is being carried out by automated equipment instead of humanemployees who previously carried out the work. This is done in an attempt to save hospital expenses. However, many employees who lose their jobs to automation will need government assistance to get by, and the same corporations that are laying people off will eventually pay for that assistance through increased taxes and unemployment insurance payments. Q:Which of the following, if true, most strengthens the author's argument?	A. Most of the new jobs created by automated equipment pay less than the jobs that were eliminated by automated equipment did B. Many hospitals that have failed to automate have seen their profits decline C. Unemployment insurance and taxes are paid also by corporations that are not automating D. Many workers who have already lost their jobs to automated equipment have been unable to find new employment
3	If $(5^a)(5^b) = 5^c/5^d$, what is d in terms of a, b and c ?	A. a + b -c B. a - b + c C. a + b + c D. c - a - b
4	Question Image	A. 2(2 + √2) B. 4 + √2 C. 2 + √2 D. 4
5	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. Notes:Sometimes,in certain question,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 amount of rain that falls in 1 month in Punjab. **Column B** The amount of rain that falls in 2 months in Punjab.	A. A B. B C. C D. D
6	There are 20 boys in a class. Five of them are left-handed. What fraction of the class is left handed ?	A. 1/5 B. 1/2 C. 1/4 D. 2/11 E.
7	Question Image	A. 2 B. 4 C. 2√2 D. 4√2
8	Classical music occupies a unique and peculiar position in every culture. They are imperishable as cultural landmarks, but the emotions expressed in some of the folks are often superseded by newer tunes. However, theclassics survive just as heritage, as imposing features of the society, yet unsuited for habitation unless remodeled. Q:The principal point put forth in the above passage is that classical works.	A. ignored by young generation B. is an obstacle in the development in new tunes C. Should be stored in museums D. Need our respect and admiration even if their tunes and ideas they express are no longer current
9	What is the value of $x^2 + 14x + 24$, when $x=854$?	A. 1000 B. 100,000 C. 741,296

10	If (p - 3)(p + 5) > (p - 3)(p + 8), what is the best description of p?	A. p = 3 B. -8 < p < -5 C. p = { } D. p < 3
11	On a test consisting of 60 problems, Sonia solved 75% of first 40 problems correctly. What percent of the other 20 questions does she need to solve correctly for her grade on the entire exam to be 90% ?	A. 95% B. 65% C. 85 % D. cannot achieve 90%
12	t is an integer greater than 5. The expression that must represent an odd integer is	A. t(t + 1) B. 3t - 1 C. t^2 D. 2t - 3
13	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 eighto'clock a.m. when the computers are free. 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?	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
14	Question Image	A. 2 + √2 B. 4 + √2 C. 4(1 + √2) D. 16(1 + √2)
15	Harper's Pencils manufactures and sells the same pencils as Johnson's Supply. Employee wages account for forty percent of the cost of manufacturing pencils at both factories. Harper's is seeking a competitive edge over Johnson's supply. Therefore, to promote this end, Harper's should lower employee wages. Q:Which of the following, if true, seriously weakens the argument above?	A. Because they make a small number of specialty artist's pencils, pencil manufacturers cannot receive volume discounts on raw materials B. Lowering wages would reduce the quality of employee work and this reduced quality would leadto lowered sales C. Harper's Pencils has taken away twenty percent of Johnson's Supply business over the last year D. Johnson's Supply pays its employees, on average, ten percent more than does Harper's Pencils
16	A class of 30 girls and 40 boys sponsored a mango party. If 60 percent of the girls and 25 percent of the boys went on the party, what percent of the class went on the party?	A. 30% B. 35% C. 50% D. 40%
17	A circle whose center is at (3, 4) passes through the origin. Which of the following points is not on the circle ?	A. (-1, 3) B. (-1, 1) C. (0, 0) D. (7, 7)
18	The surface area of sphere of radius 3 1/2 cm is:	A. 130 sq.cm B. 69 sq.com C. 154 sq.cm D. 98 sq.cm
19	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. Notes:Sometimes,in certain question,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** 2^{5-1} **Column B** $2^5 - 1$	A. A B. B C. C D. D

20   If at - b = c - dt, what is the value of t in terms of a, b, c and d ?

A. b-c/a-d
B. a/b
C. c/d
D. b+c/a+d