

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. -1 C. 1 D. 2
2	$(1+w)(1+w^2)(1+w^4)(1+w^8)\dots$ 50 factors	A. 0 B. -1 C. 1 D. 2
3	Question Image	A. I quadrant B. II quadrant C. III quadrant D. IV quadrant
4	The exponent of x in 10th term in the expansion of $(a+x)^n$	A. 10 B. 12 C. 11 D. 9
5	A and B be two square matrices and if their inverse exist, the $(AB)^{-1} =$	A. $A^{-1}B^{-1}$ B. AB^{-1} C. $A^{-1}B$ D. $B^{-1}A^{-1}$
6	Write the first four terms of the sequence if $a_n = (-1)^n n^2$	A. -1, 4, -9, 16 B. 1, -4, 9, 16 C. 1, 4, 9, 16 D. None of these
7	Question Image	
8	Power set of X i.e $P(X)$under the binary operation of union U	A. Forms a group B. Does not form a group C. Has no identity element D. Infinite set although X is infinite
9	Question Image	
10	The maximum value of $Z = 3x + 4y$ subjected to the constrains $x + y \leq 40, x + 2y \leq 60, x \geq 0$ and $y \geq 0$ is	A. 120 B. 100 C. 140 D. 160
11	Question Image	A. $\sec 5x + c$ B. $-\sec 5x + c$
12	A matrix with a single row is called a	A. Column matrix B. Row matrix C. Null matrix D. Identity matrix
13	Question Image	A. $(2x+a+b+c)$ B. $(a+b+c)$ C. $(a+b+c+x)$ D. 0
14	Question Image	
15	Which of the following is the subset of all sets	A. Φ B. $\{1,2,3\}$ C. $\{\Phi\}$ D. $\{0\}$
16	For non-trival solution $ A $ is	A. non zero B. $A = 0$ C. $ A = 0$ D. $At = 0$
17	Question Image	
18	Question Image	A. No solution B. One real solution C. More than one real solution

D. None of these

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The 6th term of an arithmetic sequence whose first term is 3 and common difference in zero is

A. 18

B. 6

C. 3

D. 0

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Question Image

A. (-1, 2)

B. (-1, 1)

C. (1, 2)

D. {-1}