

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The zero vector is	A. $[0, 0, 0]$ B. $[1, 1, 1]$ C. $[0, 1, 0]$ D. $[0, 0, 1]$
2	$\tan (-135^\circ) = _____\theta$	A. 0 B. 1 C. 2 D. 3
3	If $4 > b$ or $a < b$ than $a = b$ is a	A. Additive property B. Transitive property C. Trichotomy property of inequality D. None of above
4	Question Image	
5	$(ABC)' =$	A. CBA' B. CBA C. $C'B'A$ D. $C'B'A'$
6	$\forall a, b, c \in \mathbb{R}, a > b \wedge b > c \Rightarrow a > c$ is	A. Trichotomy property B. Transitive property C. Symmetric property D. Additive property
7	Question Image	
8	Question Image	
9	If $A \subseteq B$, and B is a finite set, then	A. $n(a) \leq n(B)$ B. $n(B) \leq n(A)$ C. $n(A) \leq n(B)$ D. $n(A) \geq n(B)$
10	For any positive integer n	A. $ABn = BnA \Leftrightarrow AB = BA$ B. $ABn = BnA \Leftrightarrow A, B$ are square matrices and $AB = BA$ C. $ABn = BnA \Leftrightarrow A + B$ D. $ABn = BnA \Leftrightarrow A$ and B are square matrices
11	Question Image	
12	Question Image	A. Free vector B. Null vector C. Unit vector D. None of these
13	Let S_n denote the sum of the first n terms of an A.P. If $S_{2n} = 3 S_n$: S_n is equal to	A. 4 B. 6 C. 8 D. 10
14	A function from A to B is denoted by	A. $f: A \rightarrow B$ B. $f: B \rightarrow A$ C. $f: \rightarrow A : B$ D. $f \rightarrow A \rightarrow B$
15	A tower subtends an angle of 30° at a point distant d from the foot of the tower and on the same level as the foot of the tower. At a second point, h vertically above the first, the angle of depression of the foot of the tower, is 60° . The height of the tower is	A. $h/3$ B. $h/3d$ C. $3h$ D. $3h / d$
16	The complement of set A relative to universal set U is the set	
17	Question Image	
18	Question Image	A. c/a B. $-c/a$ C. b/a D. $-b/a$

19	For trival solution $ A $ is	A. A B. $ A $ is non zero C. $A = 0$ D. None of these
20	$xy = 2$ is:	A. a constant function B. an identity function C. an improper function D. implicit function