

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If the expansion of $(1 + x)^{20}$, then co-efficient of r th and $(r + 4)$ th term are equal, then r is	A. 7 B. 8 C. 9 D. 10
2	Question Image	A. 0 B. 90° C. 180° D. 360°
3	Circumcentre of the triangle, whose vertices are $(0, 0)$, $(6, 0)$ and $(0, 4)$ is	A. $(2, 0)$ B. $(3, 0)$ C. $(0, 3)$ D. $(3, 2)$
4	If $a, b = 0$ then	A. $a \perp b$ B. $a \parallel b$ C. $a = b$ D. None
5	If θ be angle between u, v and u, v determine the sides of a triangle then the third side opposite to angle θ has length	A. $ u+v $ B. $ u + v $ C. $ u-v $ D. $ u - v $
6	$(a,b) + (-a,-b) =$	A. $(0,0)$ B. (a,b) C. $(-a,-b)$ D. $(1,1)$
7	Question Image	
8	Question Image	
9	The equation $ x + 4 = x$ has solution	A. $x = -2$ B. $x = 2$ C. $x = -4$ D. $x = 4$
10	The contra positive of $p \rightarrow q$ is	A. $q \rightarrow p$ B. $\sim q \rightarrow \sim q$ C. $\sim p \rightarrow \sim q$ D. None of these
11	Arithmetic mean between 14 and 18 is	A. 16 B. 17 C. 15 D. 32
12	Question Image	A. 8 C. 4 D. 64
13	$\sin^2 \alpha \cos^2 \alpha =$	A. -1 B. 0 C. 1 D. None of these
14	The periods of the function $f(x) = x[x]$ is	A. 1 B. 2 C. Non periodic D. None of these
15	$(2 + w)(2 + w^2) =$ _____	A. 1 B. 2 C. 3 D. 0
16	$(ABC)' =$	A. CBA' B. CBA C. C' B' A' D. None of these

A. additive identity

17	$3.5+5.4=5.4+3.5=8.9$ this property of addition is called	B. associative property C. commulative property D. closure property
18	The set of all positive even integers is	A. Not a group B. A group w.r.t. subtraction C. A group w.r.t. division D. A group w.r.t. multiplication
19	If a, b, c are in arithmetic progression, then $1/a, 1/b, 1/c$ are in	A. A.M B. G.M C. H.M D. G.P
20	Power set of X i.e $P(X)$under the binary operation of union \cup	A. Forms a group B. Does not form a group C. Has no identity element D. Infinite set although X is infinite