

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	$\cos{(\alpha - \beta)} = \cos{\alpha}\cos{\beta} + \sin{\alpha}\sin{\beta}$ is true for all	A. <i style="text-align: center;">α</i> >> <i style="text-align: center;">β</i> >><0 B. <i style="text-align: center;">α</i> >> <i style="text-align: center;">β</i> >C. <i style="text-align: center;">β</i> >D. None of these
3	Question Image	
4	A circle which touches one side of a triangle externally and the other two sides produced is called	A. In-circle B. Circum cirle C. Escribed circle D. None of these
5	Unit vector in the positive direction of x-axis is	
6	Question Image	A. c = 0 B. c = -1 C. c = -2 D. c = 1
7	Question Image	A. A variable B. A constant C. 0 D. None of these
8	Question Image	
9	f(x) = x3-x/x2+1 is:	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
10	Question Image	
11	Root of the equation 3 ^{x-1} + 3 ^{1-x} = is	A. 2 B. 1 C. 0 D1
12	Question Image	
13	There are types of rational fraction	A. Three B. Four C. Five D. Two
14	The function whose range consists of just one element is called	A. One-One Function B. Identity Function C. Onto Function D. Constant Function
15	The nth term of an A.P., is 12-4n. Its common difference is	A. 8 B. 4 C. 4 D. 16
16	The are of the circle centred at (1 , 2) and passing through (4 , 6) is:	A. 10π B. 25π C. 5π D. 25/2π
17	Which of the following is a scalar.	A force B. frequency C. weight D. acceleration

18	The area of the rhombus whose vertices are A(0,0),B(2,1),C(3,3),D(1,2) is	A. 36 square units B. 3 square units C. 6 square units D. 18 square units
19	The 8th term of $(1+2x)^{-1/2}$ is	A221/16 x ⁷ B225/18 x ⁷ C407/9 x ³ D429/16 x ⁷
20	A diagonal matrix is always	A. Identity B. Triangular C. Scalar D. Non-singular