

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	If $z_1 = (a,b)$, $z_2 = (c,d)$, then $z_1 z_2 =$	A. (ac,bd) B. (ac+bd, ad-bc) C. (ac-bd, ad+bc) D. (ac-bd, ad-bc)
3	The magnitude of vector a=i-3j+5k is:	A. 3 B. √35 C. √17 D. √35
4	Which is the proper rational function	
5	$\sqrt{25}$ is a number	A. Rational B. Irrational C. Natural D. Odd
6	Question Image	
7	Question Image	
8	The period of sin x/2 = Cos x/3 is	A. 2p B. 12p C. 13p D. 7p
9	Question Image	
10	A function whose range is just one elements is called	A. One-one function B. Constant function C. Onto function D. Identity function
11	Q U Q' =	A. Q B. Q' C. N D. R
12	Two circles x2 +y2 +8x -9= 0 and x2+y2+6y +k =0 touchinternallyif the value of k is	A. k = 9 B. k = ±9 C. k=-9 D. k=11
13	An infinite sequence has no	A. nth term B. Last term C. Sum D. None of these
14	Question Image	A. Rational B. Irrational C. Even D. Odd
15	If n is any positive integer then n ² > n + 3 for	
16	The tangents drawn from the point P to a circle are real and distinct if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these
17	A conditional is regarded as false only when the antecedent is true and consequent is	A. True B. False C. Known D. Unknown
18	π is the ration of	A. Area of a circle to its diameter B. Area of a circle to its radius C. Circumference of a circle to its diameter D. Circumference of circle to its radius

19 2cos2 a/2 = ____;

A. 1+sina
B. 1-sina
C. 1+cosa
D. 1-cosa

D. none of these