Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The area of a sector with central angle of 0.5 radians in a circular region whose radius is 2m is	
2	$\cos(\alpha+\beta) + \cos(\alpha-\beta) =$	A. 4 cos α cos β B. 2 cos α cos β C. 2 sin α sin β D. 2 sin α cos β
3	Question Image	A. Only one real solution B. Exactly three real solution C. Exactly one rational solution D. Non-real roots
4	Two balanced dice are tossed once, the sample space when the integers on the faces of two dice are the same is	A. {(1, 1), (2, 2), (3, 3)} B. {(4, 4), (5, 5), (6, 6)} C. {(1, 1), (2, 2), (3, 3), (4, 4), (5, 5), (6, 6)} D. None of these
5	If for two events A and B , $P(A \cup B)=1$, then events A and B are	A. Certain events B. Mutually exclusive C. Complementary events D. Independent
6	Which of the following sets is finite	A. The set of natural numbers between 3 and 10 B. The set of rational numbers between 3 and 10 C. The set of real numbers between 0 and 1 D. The set of rational numbers between 0 and 1
7	if $a_9 =19, a_9=31$ are the 6th and 9th term of an A.P. and d=4 is the common difference, then 18th term of the sequence is	A. 65 B. 67 C. 71 D. 75
8	e-radii are denoted by	A. η B. r_2 C. r_3 D. All of these
9	Question Image	
10	The n numbers $A_1, A_2, A_3, \ldots A_n$ are called an arithmetic means between a and b if a. $A_1, A_2, A_3 \ldots A_n$, b is _____	A. An arithmetic series B. An arithmetic sequence C. A geometric sequence D. A harmonic sequence
11	Question Image	
12	Question Image	
13	The degree of differential equation is the power of the	A. Lowest order derivative B. Highest order derivative C. Integral D. All are correct
14	Question Image	A. 1 B. 0 C. 3 D. -1
15	Question Image	
16	Question Image	
17	Question Image	

18	Question Image	A. $a^2b^2c^2$ B. $4a^2b^2c^2$ C. 4abc D. None
19	Question Image	
20	a + x is _____	A. A trinomial B. A binomial C. A monomial D. None of these