

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A fraction in which the degree of the numerator is less than the degree of the denominator is called	A. Polynomial B. Equation C. Proper fraction D. Improper fraction
2	Question Image	
3	Question Image	A. 8 C. 4 D. 64
4	The cube roots of 8 are	
5	Range of y = sec x is	A. $-1 \le y \le 1$ B. $y \ge 1$ or $y \le -1$ C. $y \le 1$ or $y \ge -1$ D. $-\infty$ &It $y$ &It $+\infty$
6	If line through (4,3) and (2,k) is perpendicular to y =2x +3, then k =	A1 B. 1 C4 D. 4
7	Two circles are said to be concentric if they have	A. same radius B. same chord C. same centre D. same diameter
8	Question Image	A. Reflexive property B. Symmetric property C. Transitive property D. Additive property
9	Question Image	
10	Question Image	
11	Question Image	
12	The condition for polynomial equation $ax2 + bx + c = 0$ to be quadratic is	A. a > 0 B. a < 0 C. a≠ 0 D. a≠ 0,b ≠ 0
13	Question Image	A. (a - c) <sup>2</sup> b <sup>2</sup> c <sup>2</sup> B. (a - c) <sup>2</sup> b <sup>2</sup> + c <sup>2</sup> C. (a + c) <sup>2</sup> b <sup>2</sup> D. (a + c) <sup>2</sup> D.
14	The solution of differential equation:	A. dy/dx+y/x = x <sup>2 </sup> is : B. 4xy = x <sup>4 </sup> + c C. 4x = x <sup>4 </sup> = c D. 4 y = x <sup>4 </sup> + c E. 4x=4x <sup>3 </sup> + c
15	Question Image	
16	Question Image	A. 11 B. 61 D. 1
17	The period of cos(7x-5) is	A. π/7 B. 7π/2 C. π/2 D. 2π/7
18	Question Image	A. 16 / 7 B. 6 / 17 C. 7 / 16

		D. None of these
19	Question Image	A. 3, -3, 11 B. 3, 3, 11 C3, 3, -11 D3, -3, 11
20	What is the 26th term of the sequence, if its general term is $a_n = (-1)^{n+1}$	A. 2 B. 26 C. 27 D. 1