Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	If a polynomial P(x) = x2 + 4x2 - 2x + 5 is divided by x - 1, then the reminder is:	A. 8 B. -2 C. 4 D. 5
2	If the matrices A & B have the orders 2×3 and 5×2 then order BA is:	A. 3×5 B. 5×2 C. 2×2 D. none
3	In binomial expansion of $(a+b)^n$, n is positive integer the sum of odd coefficients equals:	D. none of these
4	Question Image	A. 1 + cos Θ B. 1 - cos Θ
5	Question Image	A. A B. B
6	Question Image	B. archimedean property C. transitive property D. multiplicative property
7	To convert any angle in degrees into radians, we multiply the measure by:	
8	- 72° = _____:	D. none of these
9	The multiplicative identity of real numbers is:	A. 0 B. 1 C. 2 D. -1
10	If sinΘ <0, cosΘ<0 then the terminal arm of the angle lies in quadrant:	A. I B. II C. III D. IV
11	If 2s = a + b +c, then in any triangle ABC:	D. none of these
12	tan (-135°) =	A. 0 B. 1 D. √2
13	2 cos α sin ß =	A. cos (α + ß) + cos (α - ß) B. sin (α + ß) + sin (α - ß) C. sin (α + ß) - sin (α - ß) D. cos (α + ß) + cos (α - ß)
14	The range of principal tangent function is:	
15	The amplitude and period of 3 sin x are:	A. 3, π B. 2, 2π C. 3, 3π D. 3, 2π
16	What is the general term of the geometric sequence -1, 1, -1, 1 ..... ?	A. (-1)ⁿ B. (1)ⁿ C. (-1)ⁿ⁻¹ D. none of these
17	Question Image	
18	Question Image	
19	Tan (294°) =	A. tan24° B. -tan24° C. cot24° D. -cot24°
20	Sum of roots of $ax^2 + bx + c = 0$ is equal to product of roots only if:	A. a+c=0 B. b+c=0 C. a+b=0 D. a+b+c=0