NAT II Physical Science Mathematics

Sr	Questions	Answers Choice
1	If n is a positive integer, then 3+6+9+ ----------+3n =	
2	Question Image	A. 10 B. 20 C. 40 D. 26
3	Question Image	
4	The center of a circle of radius 10 is on the origin. Which of the following points lies with in the circle	A. (10, 0) B. (8, 8) C. (8, 4) D. (0, 10)
5	If P(E) is the probability that can event will occur, then P(E) =	A. 1 B. 0.5 C. 2 D. 0
6	Question Image	
7	The point (-5, 3) is the center of a circle and P(7, -2) lies on the circle. The radius of the circle is	A. 2 B. 13 C. 7 D. 8
8	Question Image	
9	Question Image	
10	Question Image	D. None of these
11	Question Image	
12	Write the first four terms of the arithmetic sequence if a_1= 5 and other three consecutive terms are 23,26,29	A. 23, 26, 29, 32 B. 5, 8, 11, 14 C. 8, 11, 14, 17 D. None of these
13	Which of the following is the subset of all sets?	B. {1, 2,3} D. {0}
14	Question Image	A. A < G < H B. A > G > H C. A < G > H D. A > G < H
15	The nth term in G.P 3,-6,12,..... is	A. 3(-2)ⁿ⁻¹ B. 2(-2)ⁿ⁺¹ C. 3(-2)ⁿ D. 4(-2)ⁿ⁻¹
16	Sin(a + b) + Sin (a - b) =	A. Sin a Cos b B. Sin a Sin b C. Sin a + Cos b D. Sin a - 2 Cos b
17	If the sum of the roots of the equation ax^2- 2x + 2a = 0 is equal to their product, then the value of a is	A. 1 B. 2 C. 3 D. 4
18	A standard deck of 52 cards is shuffled. What is the probability of choosing the queen of the diamonds	A. 1/5 B. 1/13 C. 5/52 D. 1/52
19	In 30,60,90 triangle, if the smallest side is 6 then the side opposite to the angle of 60°is	A. 12 B. 3 D. 6
20	Question Image	D. None of these