Mathematics Fsc Part 1 Online Test

Sr	Questions	Answers Choice
1	The direction of an angle Θ is determined by its:	A. value B. magnitude C. ratio D. sign
2	If s denotes the length of the arc intercepted on a circle of radius r by a central angle of α radians, then:	A. s = rα B. s = r + α D. none of these
3	In a circle of radius r, an arc of length kr will subtend in angle of _____ radians at the center:	A. s B. k C. r D. Θ
4	The area of a sector of a circular region of radius r with length of the arc of the sector equal to s is----------:	A. rΘ B. rs
5	In circular system the angle is measured in:	A. radians B. degrees C. degrees, minutes D. degrees, seconds
6	The system of measurement in which the angle is measured in degrees, and its sub-units, minutes and seconds is called the:	A. circular system B. sexagesimal system C. decimal system D. degree system
7	In binomial expansion $(a+b)^n$, n is positive integer the sum of coefficients equals:	D. none of these
8	In binomial expansion of (a+b)n, n is positive integer the sum of even coefficients equals:	D. none of these
9	In binomial expansion of $(a+b)^n$, n is positive integer the sum of odd coefficients equals:	D. none of these
10	Question Image	A. 2x B. x² C. 1 D. none of these
11	The middle term in the expansion of $(1+x)^{1/2}$ is:	A. T₂ B. T₃ C. does not exist D. none of these
12	Question Image	A. T₆ B. T₇ C. T₈ D. T₅
13	The middle terms of $(x+y)^{23}$ are:	A. T₁₀,T₁₁ B. T₁₁,T₁₂ C. T₁₂,T₁₃ D. none of these
14	The middle term of $(x-y)^{18}$ is:	A. 9th B. 10th C. 11th D. none of these
15	The middle term in the expansion of $(a+b)^{20}$ is;	A. 10th term B. 11thterm C. 12thterm D. 13thterm
16	If n is a positive integer, then the binomial co-efficient equidistant form the beginning and the end in the expansion of $(x+a)^n$ are:	A. same B. not same C. additive inverse of each other D. none of these
17	Number of terms in the expansion of $(x+y)^6$ is:	A. 7 B. 6 C. 2 D. 8
		A. n

18	Number of terms in the expansion of $(a+b)^n$ is:	B. n+1 C. n-1 D. none of these
19	If a statement P(n) is true for n = 1 and truth of P(n) for n = k implies the truth of P(n) for n = k + 1, then P(n) is true for all:	A. integers n B. real numbers n C. positive real numbers n D. positive integers n
20	Question Image	