

NTS Educators ESE (Science) Jobs Test

Sr	Questions	Answers Choice
1	If a rectangle has an area $81x^2$ and length of 27x. then what is its width?	A. 3x B. 9x C. 3x ² D. 9x ²
2	Cse π/3	A. 2 B. 1 C. 0 D. 2/√3
3	In 30,60,90 triangle if the smallest side is 6 than the side opposite to the angle of 60° is	A. 12 B. 3 C. 6√3 D. 6
4	Domain of Cosecθ is	A. is R but θ = n π B. is R but θ ≠ n π C. is R but θ ≠ 2n π D. is R but θ ≠ n π /2
5	If 0 is not an integral multiple of $\pi/2$ then $\text{Cot}^4 \theta + \text{Cot}^2 \theta = ?$	A. Cosec ⁴ θ - Cosec ² θ B. Tan θ - Tan ² θ C. Cosec ² θ C. Cosec ² θ D. Sinθ Cosθ
6	If in isosceles right angled triangle one side is a then hypotenuse is	A. a√2 B. a/2 C. a D. Cannot be determined by given
7	An angle 0 is such that $\tan \theta = 1$ and $\cos \theta$ is negative then	A. Sin θ is positive B. Cos $\theta = \sqrt{2}/4$ C. cos $\theta = -1$ D. sec θ is negative
8	If $\sin \theta = 3/5 \cos \theta =$	A. 1/2 B. 3/5 C. 4/5 D. 1
9	The associative angle of 280 ^o is	A. 100 ^o B. 10 ^o C. 80 ^o D80 ^o
10	An angle of one radian is equivalent to	A. 90 ^o B. 60 ^o C. 67 ^o D. 57 ^o , 18 ^o
11	1+2+3++n=?	A. n(n +1)/2 B. n +1/2 C. n(n +1)(2n +1)/6 D. n ³
12	There are 30 Red balls and 25 Green balls in a bag of a ball is drawn from the bag randomly what is the probability that a Blue ball comes out?	A. 1 B. 0.5 C. 0 D. None
13	There are 30 Red, 20 Green and some Blue bells in a bag if the probability of finding a Red ball is 1/3,how many are red balls in the bag	A. 120 B. 20 C. 40 D. 90
14	Given eight points in a plane no three of which are collinear how many lines do the points determine?	A. 16 B. 64 C. 28 D. 36
		A. 720

15	How many different arrangements of the letters in the word QABABA are Possible?	B. 40 C. 60 D. 30
16	Corola available in 5 models 8 colours and 3 sizes how many Corola must a local dealer have no hand in order to have one of each kind avialable?	A. 24 B. 120 C. 16 D. 39
17	How many elements are in the sample space of two rolling dies	A. 6 B. 12 C. 18 D. 36
18	A standard deck of 52 cards 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	If P(E) is the probability that can event will occur then P(E)=	A. 1 B. 0.5 C. 2 D. 0
20	The number of ways in which 5 distinct toys can be distributed among 3 children is	A. 3 ⁵ B. 5 ³ C. C ⁵ ₃ D. P ⁵ ₃
21	The number of diagonals of a six sided figure are	A. 9 B. 6 C. 12 D. 3
22	If C^{n}_{r} , $P^{n}_{r} = 24:1$ then $r = ?$	A. 1 B. 2 C. 3 D. 4
23	A die is thrown what is the probability that there is a prime number on the top?	A. 1/2 B. 1/3 C. 1/6 D. 2/3
24	If A and B are two events then P(A∪B) =? (when A and B are disjoint)	A. $P(A) - P(B)$ B. $P(A) \times P(B)$ C. $P(A) + P(B)$ D. $P(A) + P(B) - P(A \cap B)$
25	Two dice are rolled The number of possible out come in which at least one die shows 2 is?	A. 5 B. 12 C. 11 D. 7
26	The number of ways in which we can courier 5 packets to 10 cities is	A. 2 x 5 ^o B. 5 ¹⁰ C. 10 ⁵ D. 2 ¹⁰
27	The average of first 100 integers is=	A. 50 1/2 B. 25 1/4 C. 100 D. 5050
28	Sum of integers starting from to n is	A. n(n+1)/4 B. n(n+1)/6 C. n(n+1)/2 D. n(n-1)/2
29	The fifth term of the sequence $a_n = 3n - 2$ is	A. 3 B3 C. 13 D13
30	A sequence of numbers whose reciprocals forms an arithmetic sequence is called	A. Harmonic series B. Arithmetic series C. Harmonic sequence D. Geometric sequence