

NTS Educators ESE (Science) Jobs Test

Sr	Questions	Answers Choice
1	The two consecutive positive integers whose product is 56 are	A. 7, 8 B. 14, 4 C. 28, 2 D. 56, 1
2	Which of the following is the subset of all sets?	A. A ≠ C B. B = C C. A = B D. A ≠ B
3	Which is not included in the domain of Cos ⁻¹ x	A. 0 B. 1 C1 D. 2
4	Domain of Y = csc x is	A. R - nπ, n ε I B. R C. R -nπ/2,nεI D. All negative Integers
5	The principal value of $\sin^{-1} [\sqrt{3}/2]$ is	A. π/3 Bπ/3 C. 2π/3 D. 5π/3
6	Which is in the solution set of 4x - 3y <2	A. (3,0) B. (4,1) C. (1,3) D. None
7	If $k_1 : k_2 = 1:1$ then the point P dividing the line is	A. Mid point B. Extreme left point C. Extreme Right point D. Plies out side k ₁ and k ₂
8	The difference of two consecutive terms of an A.P is called	A. Zero B. One C. Four D. Infinite
9	In general matrices do not satisfy	A. Not a group B. A group w.r.t. subtraction C. A group w.r.t. division D. A group w.r.t. multiplication
10	What is the period of Cot x?	A. 2π B. π C. π/2 D. 4π
11	Let A, B, and C be any sets such that A \cup B=A \cup C and A \cap B=A \cap C then	A. A ≠ C B. B = C C. A = B D. A ≠ B
12	1+2+3++n=?	A. n(n +1)/2 B. n +1/2 C. n(n +1)(2n +1)/6 D. n ³
13	If x lies in $\{0, 2\pi\}$ and Cosec x = 2 then x =	A. π / 6 and 5π /6 B. π +2n π C. $n\pi$ D. 2π /3 and π /3
14	Tan $(\pi + Tan^{-1} x) = ?$	A. Tan x B. X Cx D. Cot ⁻¹ x
15	If Z ₁ = $\sqrt{-36}$, Z ₂ = $\sqrt{-25}$, Z ₃ = $\sqrt{-16}$, then what is the sum of Z ₁ , Z ₂ and Z ₃ ?	A. √3 I B. √7 C2-1

		D. √5
16	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
17	Which is a proper rational fraction	A. 3x - 7/x ² +4 B. 2x ² - 5/x ² +4 C. 3x ⁴ /2x ² -15 D. All are proper rational fraction
18	ω^{88} = ?	A. A and B are multiplicative inverse of each other B. A and B are additive inverses of each other C. A and B are singular matrices D. A and B are equal
19	Graph of the equation $X^2 + y^2 = 4$ is	A. a circle B. an ellipse C. a parabola D. A square
20	The direction cosines of y-axis are	A. 1,0,0 B. 0,1,0 C. 0,0,1 D. 1,1,1