ICS Part 2 Statistics Chapter 10 Online Test

Sr	Questions	Answers Choice
1	The normal distribution is ----------distribution.	A. positively skewed B. negatively skewed C. symmetrical D. peaked
2	The probability density function has ---------- value for every value of x.	A. negative B. positive C. minimum D. maximum
3	Second moment about mean is also called	A. mean B. variance C. skewness D. standard deviation
4	In case of normal distribution maximum value of ordinate is	A. μ B. Zero
5	The moment coefficient of skewness is	A. β₁ B. β₂ C. S_k D. m₃
6	The moment Coefficient of kurtosis is	A. β₁ B. β₂ C. Zero D. m₂
7	In case of normal distribution the area to the left of the mean and area to the right of the mean is	A. positive B. negative C. equal D. unequal
8	Normal distribution is	A. unimodal B. bimodal C. trimodal D. multimodal
9	The shape of the normal distribution is like	A. J. B. L C. bell D. circle
		A. —∞ to 1 B. <span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size:

		18px; line-height: 23.390625px;">—∞ to 0 C. —∞ to + ∞ D. 0 to ∞
10	The range of a normal distribution is	
11	Total probability under the normal curve is	A. 1 B. 0 C. -1 D. ∞
12	All odd order moments about mean are	A. unique B. zero C. different D. one
13	Points of inflexion of normal curve are at	A. μ and σ B. x=μ-σ and x=μ+σ C. μ and 2σ D. μ = o
14	P (| Z | > a) =	A. 2ø(a) - 1 B. ø(a) C. 2 ø (-a) D. 1-ø(a)
15	P(μ-2σ < X=< μ + 2σ)=	A. 0.6827 B. 0.9545 C. 0.9973 D. 0.9827
16	In case of normal distribution maximum value of ordinate is	A. μ B. Zero
		A. μ₁ = μ₂ = μ₃ = μ₄

17	In case of symmetrical distribution	= μ₄ B. β₁ = β₂ C. P₁ < P₂
18	Question Image	A. β₁ B. β₂ C. β₃ D. S_k
19	The total area under the normal curve is_____.	A. Zero B. Equal C. Unity D. True
20	Normal distribution ranges from_____.	A. 1,2,3,.....∞ B. -∞ to +∞ C. 1,2,3,.....n D. None of these
21	The maximum ordinate of a normal curve is at X = _____.	A. μ B. σ C. $\bar{X}$ D. S.D
22	The normal distribution is a _____.	A. Positive B. Negative C. Discrete D. Continuous
23	The normal distribution is a bell shaped_____ distribution.	A. Discrete B. Continuous C. Symmetrical D. Skewed
24	In normal distribution.	A. Mean > median > mode B. Mean = median = mode C. Mean < median < mode D. None of these
25	The Quartile deviation (Q.D) of a normal distribution is_____.	A. 4/5 σ B. 5/4 σ C. 2/3 σ D. None of these
26	The mean deviation (M.D) of a normal distribution is _____.	A. 4/5 σ B. 5/4 σ C. 2/3 σ D. None of these
27	The point of inflection in normal distribution are _____.	A. μ - σ, μ + σ B. μ - σ, μ + 2σ C. μ, σ D. None of these
28	If X - N (50,25), then=σ = _____.	A. 3 B. 5 C. 25 D. 50
29	The maximum ordinance of the standard normal Curve is at Z = _____.	A. 1.96 B. 2.33 C. 1 D. 0
30	μ - 2σ to=μ + 2σ contains approximately_____ area.	A. 75% B. 50% C. 95.45% D. 99.73%
31	For normal distribution mean always lies between.	A. Median and mode B. Median and Q₁ C. Median and Q₃ D. None of these
32	In a normal distribution,_____= μ + 0.64745 σ	A. Q₁ B. Q₃ C. μ D. σ
33	All odd ordered moments about mean are _____ in a normal distribution.	A. Zero B. Unity C. Positive D. Negative
34	The normal distribution is represented as_____	A. N (μ,σ²) B. N (n,p) C. N (0,σ²) D. None of these

		D. None of these
35	In a normal distribution $\beta_1 = 0$ and $\beta_2 =$ _____.	A. 2 B. 4 C. 3 D. 5