

ICS Part 2 Statistics Chapter 10 Online Test

Sr	Questions	Answers Choice
1	The probability density function has ----- value for every value of x.	A. negative B. positive C. minimum D. maximum
2	Second moment about mean is also called	A. mean B. variance C. skewness D. standard deviation
3	In a normal distribution $\beta_1 = 0$ and $\beta_2 =$ _____.	A. 2 B. 4 C. 3 D. 5
4	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
5	The normal distribution is a _____.	A. Positive B. Negative C. Discrete D. Continuous
6	Total probability under the normal curve is	A. 1 B. 0 C. -1 D. ∞
7	The moment Coefficient of kurtosis is	A. β_1 B. β_2 C. Zero D. β_2
8	Points of inflexion of normal curve are at	A. μ and σ B. $x = \mu - \sigma$ and $x = \mu + \sigma$ C. μ and 2σ D. $\mu = \sigma$
9	In normal distribution.	A. Mean > median & mode B. Mean = median = mode C. Mean < median & mode D. None of these

10	The total area under the normal curve is_____.	A. Zero B. Equal C. Unity D. True
11	In case of normal distribution maximum value of ordinate is	A. $\frac{4}{5}\sigma$ B. $\frac{5}{4}\sigma$ C. $\frac{2}{3}\sigma$ D. Zero
12	The mean deviation (M.D) of a normal distribution is _____.	A. $\frac{4}{5}\sigma$ B. $\frac{5}{4}\sigma$ C. $\frac{2}{3}\sigma$ D. None of these
13	$\mu - 2\sigma$ to $\mu + 2\sigma$ contains approximately_____ area.	A. 75% B. 50% C. 95.45% D. 99.73%
14	In case of normal distribution maximum value of ordinate is	A. μ B. Zero
15	The Quartile deviation (Q.D) of a normal distribution is_____.	A. $\frac{4}{5}\sigma$ B. $\frac{5}{4}\sigma$ C. $\frac{2}{3}\sigma$ D. None of these
16	$P(\mu - 2\sigma < X < \mu + 2\sigma) =$	A. 0.6827 B. 0.9545 C. 0.9973 D. 0.9827
17	The point of inflection in normal distribution are _____.	A. $\mu - \sigma, \mu + \sigma$ B. $\mu - \sigma, \mu + 2\sigma$ C. μ, σ D. None of these
18	If $X \sim N(50, 25)$, then $\sigma =$ _____.	A. 3 B. 5 C. 25 D. 50
19	Question Image <input type="text"/>	A. $\beta ₁$ B. $\beta ₂$ C. $\beta ₃$ D. $S _k$
20	The normal distribution is represented as_____	A. $N(\mu, \sigma^2)$ B. $N(n, p)$ C. $N(0, \sigma^2)$ D. None of these