ICS Part 2 Statistics Chapter 10 Online Test

Sr	Questions	Answers Choice
1	The total area under the normal curve is_____.	A. Zero B. Equal C. Unity D. True
2	In case of normal distribution maximum value of ordinate is	A. μ B. Zero
3	All odd ordered moments about mean are _____ in a normal distribution.	A. Zero B. Unity C. Positive D. Negative
4	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
5	The maximum ordinate of a normal curve is at X = _____.	A. μ B. σ C. $\bar{X}$ D. S.D
6	The normal distribution is a _____.	A. Positive B. Negative C. Discrete D. Continuous
7	In case of normal distribution maximum value of ordinate is	A. μ B. Zero
8	In case of symmetrical distribution	A. $\mu_1 = \mu_2 = \mu_3 = \mu_4$ B. $\beta_1 = \beta_2$ C. $P_1 < P_2$
9	In a normal distribution,_____ = $\mu + 0.64745\,\sigma$	A. Q_1 B. Q_3 C. μ D. σ
10	In normal distribution.	A. Mean > median > mode B. Mean = median = mode C. Mean < median < mode D. None of these
11	Normal distribution is	A. unimodal B. bimodal C. trimodal D. multimodal
12	The normal distribution is a bell shaped_____ distribution.	A. Discrete B. Continuous C. Symmetrical D. Skewed
		A. 2ø(a) - 1

13	$P(\|Z\| > a) =$	B. $\phi(a)$
		C. $2\ \phi(-a)$
		D. $1 - \phi(a)$

14	Normal distribution ranges from_____.	A. $1,2,3,............\infty$
		B. $-\infty$ to $+\infty$
		C. $1,2,3,.........n$
		D. None of these

15	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. $\mu = o$

16	$\mu - 2\sigma$ to $\mu + 2\sigma$ contains approximately_____ area.	A. 75%
		B. 50%
		C. 95.45%
		D. 99.73%

17	The mean deviation (M.D) of a normal distribution is _____.	A. $4/5\ \sigma$
		B. $5/4\ \sigma$
		C. $2/3\ \sigma$
		D. None of these

18	For normal distribution mean always lies between.	A. Median and mode
		B. Median and Q_1
		C. Median and Q_3
		D. None of these

19	The probability density function has ------------------ value for every value of x.	A. negative
		B. positive
		C. minimum
		D. maximum

20	The shape of the normal distribution is like	A. J.
		B. L
		C. bell
		D. circle