

## ICS Part 2 Statistics Chapter 10 Online Test

Sr	Questions	Answers Choice
1	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
2	The maximum ordinate of the standard normal Curve is at Z = _____.	A. 1.96 B. 2.33 C. 1 D. 0
3	$P(\mu - 2\sigma < X \leq \mu + 2\sigma) =$	A. 0.6827 B. 0.9545 C. 0.9973 D. 0.9827
4	Second moment about mean is also called	A. mean B. variance C. skewness D. standard deviation
5	In case of normal distribution maximum value of ordinate is	A. <span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;">&gt;</span> $\mu$ B. Zero
6	The normal distribution is a bell shaped_____ distribution.	A. Discrete B. Continuous C. Symmetrical D. Skewed
7	If $X \sim N(50, 25)$ , then $\sigma =$ _____.	A. 3 B. 5 C. 25 D. 50
8	Total probability under the normal curve is	A. 1 B. 0 C. -1 D. <span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;">&gt;</span> $\infty$ <span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;">&lt;</span> $\infty$
9	Normal distribution is	A. unimodal B. bimodal C. trimodal D. multimodal
10	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
11	In normal distribution.	A. Mean > median > mode B. Mean = median = mode C. Mean < median < mode D. None of these
12	$P( Z  > a) =$	A. <span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;">&gt;</span> 2 B. <span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;">&gt;</span> $\theta(a) - 1$ C. <span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;">&gt;</span> $\theta(a)$ D. <span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;">&gt;</span> $\theta(a)$

		<p>&lt;/span&gt;  C. &lt;span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;"&gt;2&amp;nbsp;ø (-a)&lt;/span&gt;  D. &lt;span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;"&gt;1-ø(a)&lt;/span&gt;</p>
13	Normal distribution ranges from_____.	<p>A. 1,2,3,.....∞  B. -∞ to +∞  C. 1,2,3,.....n  D. None of these</p>
14	The probability density function has ----- value for every value of x.	<p>A. negative  B. positive  C. minimum  D. maximum</p>
15	The moment Coefficient of kurtosis is	<p>A. &lt;span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;"&gt;β&lt;sub&gt;1&lt;/sub&gt;&lt;/span&gt;  B. &lt;span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;"&gt;β&lt;sub&gt;2&lt;/sub&gt;&lt;/span&gt;  C. Zero  D. m&lt;sub&gt;2&lt;/sub&gt;</p>
16	In case of normal distribution the area to the left of the mean and area to the right of the mean is	<p>A. positive&amp;nbsp;nbsp;  B. negative  C. equal  D. unequal</p>
17	In case of normal distribution maximum value of ordinate is	<p>A. μ  B. Zero</p>
18	The normal distribution is represented as_____	<p>A. N (μ,σ&lt;sup&gt;2&lt;/sup&gt;)  B. N (n,p)  C. N (0,σ&lt;sup&gt;2&lt;/sup&gt;)  D. None of these</p>
19	All odd order moments about mean are	<p>A. unique  B. zero  C. different  D. one</p>
20	The range of a normal distribution is	<p>A. &lt;span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;"&gt;—∞ to 1&lt;/span&gt;  B. &lt;span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;"&gt;—∞ to 0&lt;/span&gt;  C. &lt;span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;"&gt;∞&lt;/span&gt;  D. 0 to&amp;nbsp;&lt;span style="color: rgb(0, 0, 0); font-family: 'Lucida Sans Unicode', 'Lucida Grande', sans-serif; font-size: 18px; line-height: 23.390625px;"&gt;∞&lt;/span&gt;</p>