

## ICS Part 2 Statistics Online Test

Sr	Questions	Answers Choice
1	An example in a two-sided, alternative hypothesis is:	A. $H_1: \mu \leq 0$ B. $H_1: \mu \geq 0$ C. $H_1: \mu < 0$ or $H_1: \mu > 0$ D. $H_1: \mu \neq 0$
2	A data points falling along a straight line is called_____.	A. Linear relationship B. Non-linear relationship C. Linear positive D. Scatter diagram
3		B. $b_{yx}$ C. $b_{xy}$ D. $S_p$
4		A. $\beta_1$ B. $\beta_2$ C. $\beta_3$ D. $S_k$
5	The hypothesis which we are willing to accept when the null hypothesis is rejected is called	A. simple hypothesis B. composite hypothesis C. null hypothesis D. alternative hypothesis
6	$(1-\alpha)$ is called:	A. Critical value B. Level of significance C. Level of confidence D. Interval estimate
7	In case of symmetrical distribution	A. $\mu_1 = \mu_2 = \mu_3 = \mu_4$ B. $\beta_1 = \beta_2$ C. $P_1 \neq P_2$ D. $P_2$
8	If sampling is done without replacement then no	A. $N > n$ B. $\frac{N}{C} < n$ C. $\frac{N}{P} < n$ D. $N \times n$
9	Another name of probability sampling is_____ sampling.	A. Random B. Non-random C. Error D. Bias
10	Large sample contains more than	A. 5 values B. 10 values C. 20 values D. 30 values
11	If $r = -1$ , then there is	A. negative correlation B. perfect negative correlation C. no correlation D. average correlation
12	The multiplicative time series model is:	A. $Y = T + S + C + I$ B. TSCI C. $Y = a + bX$ D. $Y = a + bX + cX^2$
13	Suppose that the null hypothesis is true and it is rejected, is known as:	A. $\alpha$ type-I error, and its probability is $\beta$ B. $\alpha$ type-I error, and its probability is $\alpha$ C. $\alpha$ type-II error, and its probability is $\alpha$ D. $\alpha$ type-II error, and its probability is $\beta$
14	The mean deviation (M.D) of a normal distribution is	A. $\frac{4}{5}\sigma$ B. $\frac{5}{4}\sigma$ C. $\frac{3}{2}\sigma$ D. $\frac{2}{3}\sigma$

		C. $2/3\sigma$ D. None of these
15	For a least squares linear trend $\hat{y} = a + bx$ , b is the	A. variable B. intercept C. trend D. slope
16	Methods of semi-averages gives an	A. accurate result B. objective result C. authentic result D. none of these
17	The graph of a time series is called	A. histogram B. polygon C. straight line D. historigram
18	If $b_{yx} = 0.89$ and $b_{xy} = 0.75$ , then r =	A. 0.89 B. 0.28 C. 0.98 D. 0.82
19	Non probability form of sampling is	A. quota sampling B. sampling with replacement C. sampling without replacement D. none of these
20	The standard error of the estimate increased by decreasing	A. population B. sample size C. errors D. precision