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Exam. Code : 103205 Subject Code : 1212

B.A./B.Sc. 5th Semester QUANTITATIVE TECHNIQUES (Quantitative Techniques—V)

Time Allowed—3 Hours] [Maximum Marks—100 Note :— Attempt *five* questions in all. First question is compulsory. Attempt any *one* question from each of the *four* units. All questions carry equal marks.

- 1. Give short answers to the following : that tofic .0.1
 - (a) One Tailed Test
 - (b) Normality Assumption
 - (c) Randomized Block Design
 - (d) Continuous Variable and in a solar form
 - (e) Statistic vs. Parameter
 - (f) Acceptance Region
 - (g) Confidence Interval
 - (h) Type II Error : ellueor mov termini line
 - (i) Degree of Freedom
 - (j) Alternate Hypothesis.

UNIT-I

- 2. What are the characteristic features of a good estimator ? Explain in detail.
- Find the probability of four heads in six flips of an unbiased coin by using binomial distribution.
 UNIT—II
- 4. Derive the basic properties of t-distribution.
- 5. Highlight the characteristic features of Chi-square distribution.

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UNIT-III

6. An I.Q. test was administrated to five persons before and after they were trained. The results are given below :

Test whether there is any change in I.Q. after training programme.

Candidates	Ι	II	III	IV	V
I.Q. before training	110	120	123	132	125
I.Q. after training	120	118	125	136	121

7. "The Chi square test is a non-parametric test", comment on the correctness of the statement. Explain the mechanics of this test.

UNIT-IV

8. Perform a Two-way ANOVA on the data given below and interpret your results :

Plots of land	Treatments					
	A	В	C	D		
boos I and a	38	40	41	39		
	45	42	49	36		
III	40	38	42.	42		

9. What is the purpose of carrying out the Analysis of Variance (ANOVA) ? Enlist the assumptions of ANOVA technique.

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