

DH-411

M.B.A. (FT) Ist Semester Examination, 2014-15

Quantitative Techniques

Paper - CP-102

Time : 3 Hours]

[Maximum Marks : 80

Note :- Attempt all questions as directed in each section.

Section - 'A'

4×8=32

Short Answer Type Questions

Note :- Attempt any **four** questions, carries 8 marks each.

1. What do you mean by Frequency distribution ? Why Graphical representation is helpful in frequency distribution ?
2. Write a short note on Coefficient of variation ?
3. Determine the arithmetic mean of salaries of staff members as shown in the following table :-

P.T.O.

Salaries of staff members

Employees No.	1	2	3	4	5	6
Monthly Salary ₹Rs.	12,000	14,500	85,00	13,500	13,500	17,500

4. Define the term "Probability" ? Narrate the difference between experimental probability and theoretical probability ?
5. Write a note on "Kurtosis" ?
6. Describe the properties of Normal Distribution ?
7. How time series Analysis is useful in Business forecasting ?
8. Describe the features and formula of Z-test ?

SECTION - 'B'**3×16=48****Long Answer Type Questions**

Note :- Attempt any **three** question from this section carrying 16 marks each.

9. Define "Correlation" ? What are the uses of "Correlation" and "Coefficient of correlation" ?
10. Write notes on (Both :-
 - (a) T-test for difference of means.
 - (b) Standard deviation concept.
11. Discuss any **two** following "Non Probability" sampling methods :-
 - (i) Convenience sampling.
 - (ii) Quotasampling.

(iii) Snowball sampling.

12. The distribution of Annual Revenues of 100 firms in a district is presented in following table. Find out the median and Mean of the Annual Revenue of Firms :-

"Distribution of Annual Revenue"

Annual Revenue c In correes of ₹ Rs.	Less than 2	2-4	4-6	6-8	8-10	10-12	12-14	14-16	More than 16
No. of Firms	10	15	20	30	8	5	4	3	5

13. In an organization out of 200 employees, 40 are having their monthly salary morethan Rs. 15,000 and 120 of them are regulars of "X" brand of Tea. Out of those 40, who are having their monthly salary morethan Rs. 15000, 20 are regular takers of "X" brand to Tea. If a particular employee is selected, what is the probability that he/she is having monthly salary morethan Rs. 15000, if he/she is a regular taker of "X" Brand of Tea ? Applying "Conditional Probability Approach" solve this problem & Provide answer ?
 - (a) Cost Reconciliation Statement.
 - (b) Replacement of Assets.
 - (c) Fixed and Variable cost.

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