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21BBA3C9SB

B.B.A III Semester Degree Examination, April/May - 2024

MANAGEMENT

DSC 9 : Statistics for Business Decisions

(NEP)

Time : 2 Hours Maximum Marks : 60

Note : *Answer* ***all*** *sections.*

SECTION - A

1. Answer **all** the questions. **10x1=10**

(a) Define Statistics.

(b) What do you mean by primary data ?

(c) Give the formula for calculating Arithmetic mean in Discrete Series.

(d) Define Tabulation.

(e) State the types of Sampling.

(f) What is Regression ?

(g) What is meant by Trend value ?

(h) What do you mean by Cost of Living index number ?

(i) State the types of Correlation.

(j) Write the meaning of Mode.

SECTION - B

Answer **any four** of the following questions. Each question carries **five** marks. **4x5=20**

2. Explain in brief the objectives of Statistics.

3. Present the data in a Tabular Form
Male 55%
Male non-coffee drinkers were 30%
Female coffee drinkers were 15%

4. Explain the difference between classification and Tabulation.

P.T.O.

5. Present the data in a Percentage Bar diagram.

Years	**Men**	**Women**	**Children**
2021	45%	35%	20%
2022	44%	34%	22%
2023	48%	36%	16%

6. If r = 0.6 and N = 64 of a distribution. Find out the Probable error.

7. Calculate the Standard Deviation from the given data :

Age (in years) : 23, 27, 28, 29, 30, 31, 33, 35, 36, 38

SECTION - C

Answer **any three** of the following questions. Each question carries **ten** marks. **3x10=30**

8. Compute Mean, Median and Mode for the following data.

Class Interval :	0-10	10-20	20-30	30-40	40-50	50-60
Frequency :	14	23	35	20	8	5

9. Calculate Karl Pearson's Coefficient of correlation for the following data regarding price and demand of a certain commodity.

Price (in ₹) :	21	22	23	24	25	26	27	28	29
Demand (in 000 units):	20	19	19	17	17	16	16	15	14

10. Fit a straight line trend by the method of least squares for the following data relating to production of Rice.

Year :	2013	2014	2015	2016	2017	2018	2019
Production : (000 tons)	80	90	92	83	94	99	92

Also calculate the trend values for the year 2022.

11. Construct Fischer's Ideal Index Numbers from the given data :

Items	**Price**		**Quantity**	
	2018	2019	2018	2019
A	16	40	100	120
B	4	12	30	20
C	2	4	40	50
D	4	10	20	16
E	2	10	80	60

12. Construct the cost of living index number for the following data by using :

(a) Aggregate Expenditure Method

(b) Family Budget Method

Commodities	Unit	Quantity Consumed in 2017	Price per unit	
			2017	2018
A	Quintal	5 Quintal	1200	1800
B	Kg	25 Kgs	20	25
C	Litre	20 Litres	20	30
D	Meter	25 Meters	50	45
E	Unit	20 Units	100	200

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