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III Semester B.B.A. Examination, March/April 2023 (NEP) (2022 – 23 and Onwards) (Freshers) BUSINESS ADMINISTRATION Paper – 3.3 : Business Statistics

Time : 21/2 Hours

Max. Marks : 60

Instruction : Answers should be written in English only

SECTION – A

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Answer **any 6** of the following sub-questions. **Each** sub-question carries **2** marks.

(6×2=12)

P.T.O.

- 1. a) Define Statistics.
 - b) What is Pie chart ?
 - c) What do you mean by Arithmetic mean?
 - d) Write the formula of co-efficient of variation.
 - e) State the meaning of regression analysis.
 - f) Why Fisher's method is called as an ideal index ?
 - g) What is primary data ?
 - h) If $b_{xy} = 1.2$, $b_{yx} = 0.8$, find r.

SECTION - B

Answer any three of the following questions. Each question carries 4 marks. (3x4=12)

- 2. Explain any 4 functions of Statistics.
- In a sample study about coffee habit in a town. The following information was received. Female – 40%, the total coffee drinkers were 45% and male non coffee drinkers were 20%. Present the data in a tabular form.
- 4. What are the merits of standard deviation ?
- From the following details, calculate the value of N : r = 0.61, P.E. = 0.1312.

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Commodity	Q ₀	Po	P ₁
A	100	5	6
В	80	4	5
C	60	3	5

6. From the following data, construct the Laspeyres Index number :

SECTION - C

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Answer any three of the following questions. Each question carries 12 marks. (3×12=36)

7. Explain the various methods of classification of data.

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8. A rupee spent on Khadi is distributed as follows :

Farmer	\rightarrow	20 paise
Spinner	\rightarrow	30 paise
Weaver	\rightarrow	25 paise
Dyes	\rightarrow	10 paise
Agent	$(\rightarrow$	15 paise
Total		100 paise

Present the data in the form of Pie diagram.

9. Find mean, median and mode from the following data :

Profits (in lakhs)	No. of Companies			
4 – 7	6			
8 – 11	10			
12 – 15	18			
16 – 19	30 ′			
20 – 23	15			
24 – 27	12			
28 – 31	10			
32 – 35	6			
36 - 39	2			

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10. Compute Karl Pearson's co-efficient of correlation between X and Y from the following information :

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Х	80	100	90	100	130	100	170	140	170
Y	15	15	14	21	17	18	16	16	21

11. Calculate the index number using both the Aggregate Expenditure Method and Family Budget Method for the year 2017 with 2016 as the base year from the following data :

Commodity	Quantity in Units in 2016	Price Per Unit in 2016 (₹)	Price Per Unit in 2017 (₹)	
Rice	e 100 8.00		12.00	
Wheat	25	6.00	7.50	
Eggs	10	5.00	5.25	
Теа	20	48.00	52.00	
Milk	25	15.00	16.50	
Sugar	30	9.00	27.00	

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