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Reg. No. | C | 1 | 9 | 4 | 7 | 6 | 1 | 8 |

III Semester B.Com. Degree Examination, March/April - 2021

COMMERCE

Business Data Analysis

(CBCS 2019-20 Onwards Scheme)

Time : 3 Hours **Maximum Marks : 70**

Instructions to Candidates:

Answers should be written either completely in English or in Kannada.

SECTION - A

1. Answer any **five** sub-questions. Each sub-question carries **two** marks. **(5×2=10)**

a) Define "statistics".

b) State any four requisties of a good average.

c) What is "Skewness"?

d) What is a "probable error"?

e) What do you mean by "Trend"?

f) Find median, if A.M = 12 and Z = 13.

g) Give the meaning of "Interpolation".

SECTION - B

Answer any **Three** of the following questions. Each question carries **five** marks. **(3×5=15)**

2. In a state there were 80 lakh people. Out of these, 50 lakh people live in urban areas and the rest in rural areas. In urban areas there were 25 lakh male people, out of which 15 lakh are illiterate. In urban areas 13 lakh ladies were illiterates. In rural areas there were 20 lakh male people out of which 12 lakh were literate, in rural areas illiterate ladies were 3 lakh. Tabulate the above information.

3. The following table shows the results of BBA students of a college for the last 3 years, Draw a multiple bar diagram.

Year	First class	Second class	Pass class	Failed
2018	26	33	30	7
2019	31	27	21	12
2020	37	32	20	7

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4. Calculate arithmetic Mean from the following distribution.

Marks :	10-20	20-30	30-40	40-50	50-60	60-70
No. of students:	5	11	18	12	8	4

5. From the data given below, find the probable production for the year 2010 by using Binomial expansion method.

Year :	2000	2005	2010	2015	2020
Production in 000' tons :	20	22	?	30	35

SECTION - C

Answer any **Three** of the following questions. Each question carries **fifteen** marks. **(3×15=45)**

6. Following are the runs scored by two batsman 'A' and 'B' are given below :

A :	60	50	40	80	90	30	70
B :	50	60	40	30	80	70	20

Find which of the batsman is consistent in scoring runs and better run getter.

7. Compute Karl Pearson's coefficient of skewness for the following distribution.

C.I :	100-200	200-300	300-400	400-500	500-600	600-700	700-800
f :	4	10	18	12	3	2	1

8. Following are the two variables - Demand (X) and supply (Y) for a particular goods. Find the coefficient of correlation between the variables and interpret the rusult by finding probable error.

Demand (X) :	39	65	62	90	82	75	25	98	36	78
Supply (Y) :	47	53	58	86	62	68	60	91	51	84

9. Following are the data relating to Swastik Wheels Ltd. car production for seven years. Compute the trend values by the least square method and show them on a graph.

Year :	2014	2015	2016	2017	2018	2019	2020
Production of cars (in '000') :	12	10	14	11	13	15	16