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**III Semester B.Com. Degree Examination, April - 2022****COMMERCE****Business Data Analysis****(CBCS Scheme 2019-20 Onwards Regular)****Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates:**

Answers should be written completely in English only.

**SECTION - A**

1. Answer any five sub questions. Each sub question carries 2 marks. (5×2=10)
- What is statistics?
  - Name the sources of secondary data.
  - Find mode if A.M = 38.2 , med = 41.6
  - Name the types of correlation.
  - State the uses of time series analysis.
  - What is meant by Interpolation?
  - What do you mean by Regression Analysis?

**SECTION - B**

Answer any three of the following questions. Each question carries five marks.

(3×5=15)

2. Draw a simple bar diagram from the following data relating to the number of small scale units in various states during the year 2021.

States -	Karnataka	T.N	A.P	M.P	U.P	H.P
No.of small scale Units (in'000s)	55	68	40	75	85	70

3. Calculate the median from the following data.

size:	8	10	12	14	16	18	20
Frequency	3	7	12	28	10	9	6

[P.T.O.]



4. Calculate the standard deviation from the following series.

X:	20	22	25	31	35	40	42	45
f:	5	12	15	20	25	14	10	6

5. From the following data, find the probable Export for the year 2008 by using binomial expansion method.

Year	2006 ,	2007 ,	2008 ,	2009 ,	2010 ,	2011
Exports	2100	2300	?	2800	3000	3500

(Rs. crores)

### SECTION - C

Answer any three of the following questions. Each question carries 15 marks.

(3×15=45)

6. Out of a total number of 10,000 Candidates who applied for Jobs in a government department, 6854 were males, 3146 were graduates and other, non-graduates. The number of candidates with some experience was 2623 of whom 1860 were male. The number of male graduates was 2012. The number of graduates with experience was 1093, That includes 323 females.

Tabulate the above information.

7. Calculate mean, median and mode from the following data

Production in tonnes	No.of employees
200-400	6
400-600	9
600-800	11
800-1000	14
1000-1200	20
1200-1400	15
1400-1600	10
1600-1800	8
1800-2000	7



8. Calculate Karl Pearson's co-efficient of correlation from the following data

X	6	8	9	14	17	28	24	31
Y	10	12	15	15	18	25	22	26

9. Following data relating to poorvika mobiles sales for seven years. Compute the trend values by the least square method and show them on a graph.

Year	2015	2016	2017	2018	2019	2020	2021
Sales(Rs. Lakhs)	80	90	92	83	94	99	92

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