A

Printed Pages : 4

(20623)

Roll No. .....

BBA -II Sem.

18080

B. B. A. Examination, June-2023

QUANTITATIVE TECHNIQUES FOR BUSINESS

(BBA-201)

(New Course)

Time : 3 Hours] *[Maximum Marks : 75*

Note : Attempt questions from ***all*** sections as per instruction.

Section-A

(Very Short Answer Questions)

Note : Attempt all ***five*** questions. Each question carries 5×3 marks. Very short answer is required not exceeding 75 words. 5×3=15

1. What do you mean by correlation ? Explain types of correlation. What is the Karl Perason coefficient of correlation ?

2. The following table shows the age of the mother and the average number of children born per mother.

Find the missing value :

Age of Mother (Years)	15-19	20-24	25-29	30-34	35-39	40-44
Age of Children (Born)	07	2.1	3.5	?	5.7	5.8

3. Calculate missing frequency from the following. Median is 25.625

Class	0-10	10-20	20-30	30-40	40-50
f	4	7	16	10	?

4. Fit a straight Line Trand by the method of least squares of the following data :

Year	2008	2009	2010	2011	2012	2013	2014
Production (000)8	80	90	92	83	94	99	92

5. In a game of cards what is the chance that a particular player get all the four kings.

Section-B

(Short Answer Questions)

Note : Attempt any *two* questions out of the following three questions. Each question carries 7½ marks.

$2 \times 7\frac{1}{2} = 15$

6. Calculate Trend value by the method of least square from the data given below :

Year	2001	2004	2006	2007	2009	2010	2012
Value	75	67	68	65	50	54	41

7. Find out coefficient of concurrent deviation from the following data :

Year	1990	2000	2001	2002	2003	2004	2005	2006	2007
Supply	160	164	172	182	166	170	178	192	186
Price	292	280	260	204	266	254	230	190	200

8. From the following data calculate the value of Log 656 by Lagrange method :

Log 654 2.8156 Log 659 2.8189

Log 658 2.8182 Log 661 2.8202

Section-C

(Detailed Answer Questions)

Note : Attempt any ***three*** questions out of the following five questions. Each question carries 15 marks.

$3 \times 15 = 45$

9. What are the other measures based on Standard deviation ? What is meant by Time Series ?

10. Three coins are tossed. simultaneously, What is the probability that there will be exacty two heads.

11. At an examination at which 600 candidate appeared, boy outnumered girls by 16%, if all candidate number or passed candidate exceed the number of failed candidate by 310 boys failing in the examination numbered 88. Considert the two fold Association table and calculate the coefficient of association between male sex and success at the Examination.

12. Explain the meaning, classification and importance of Tabulatation of statistical data. Discuss the different methods of classificaton.

13. The mean of the following frequency table is 25. Find the missing frequencis :

Class	0-10	10-20	20-30	30-40	40-50	Total
F	17	F_1	32	F_2	19	160