

**RAN-2408000701020002****F.Y.B.B.A. (Sem. I) (NEP) Examination November - 2025****Basic Mathematics and Statistics****સૂચના : / Instructions**

(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q-1.**Answer the following questions (Any 5 out of 7)****10**

1. Define forward rate
2. Enlist data collection techniques
3. Define Primary data with example
4. Find the harmonic mean from the following data:

Marks	20	25	30	35	40
Frequency	3	4	7	8	6

5. The following table gives the age distribution of a group of 50 individuals. Calculate range and coefficient of range:

Age (in years)	15	18	20	25	28	30	35
No. of persons	8	8	6	7	9	8	4

6. Define regression
7. Explain the types of correlation

Q-2.

Define random and non-random sampling. Explain in detail types of random and non-random sampling with example

14**OR****Q-2.**

- a. Mr. Aryan wants you to compute bond value having face value of Rs. 100 at interest rate of 8% p.a after 5 years if

07

- (i) Bond matters at par
- (ii) Bond matters at premium of 20%
- (iii) Bond matters a discount of 10%

Expected rate of return - 10% p.a

- b. Represent the following data by a suitable graph and Interpret it -

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Weekly wages ('00Rs.)	10-15	15-20	20-25	25-30	30-40	40-60	60-80
No. of workers	7	19	27	15	12	12	8

Q-3.

Find the value of mean, median and mode from the data given below:

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Weight (in kgs)	93-97	98-102	103-107	108-112	113-117	118-122	123-127	128-132
No. of students	3	5	12	17	14	6	3	1

OR

- Q-3. a.** Find standard deviation and coefficient of variation from the following distribution: **07**

Marks	60-64	65-69	70-74	75-79	80-84	85-89	90-94
No. of students	5	7	10	8	5	3	2

- b.** The following table gives weights of 31 persons in a sample enquiry. Calculate the geometric mean **07**

Weight (lbs)	130	135	140	145	146	148	149	150
No. of persons	3	4	6	6	3	5	2	1

- Q-4. Short Note (any 3 out of 5)** **12**

1. Explain the types of foreign exchange quotations
 2. Explain different types of charts and graphs using diagram
 3. Explain time series and its components with example
 4. Explain the properties of correlation
 5. Differentiate between correlation and regression
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