

RAN-2408000601021011
F.Y.B.Com. (Data Science) (NEP) (Sem. I) Examination April - 2026
Major : Statistics For Data Analytics Paper-I
[Total Marks: 35
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.

Seat No.:

Student's Signature
Q. 1 Answer the following questions: (Any Five)
(10)

1. State the types of scale of measurement.
2. Find Geometric mean of the observations 2, 5 and 100.
3. Calculate Harmonic mean of the following data:
10, 15, 20, 30.
4. If $Q_3 + Q_1 = 108.5$, $Q_3 - Q_1 = 7.4$; find Q.D.
5. $n = 10$. $\sum |x - \bar{x}| = 17.7$ find M.D.
6. Interpret the value for Correlation Coefficient $r = +1$.
7. If $r = 0.66$, $S_y = 4$, $S_x = 12$ find b_{yx} .

Q. 2 (A) Find mode of the following frequency distribution:
(7)

Class	0-20	20-40	40-60	60-80	80-100	100-120	120-140	140-160	160-180	180-200
f	5	9	10	13	24	15	10	8	10	6

(B) Find mean of the following frequency distribution:
(6)

Observation	50	51	52	53	54	55	56	57	58
Frequency	1	4	8	13	9	7	4	3	1

OR
Q. 2 (A) Find S.D. and C.V. for both series.
(7)

Series A	114	102	110	106	-	-
Series B	96	92	88	84	80	76

- (B) Find mean deviation for the following distribution. (6)

x	8	9	10	12	13	15	20
f	6	12	20	24	16	12	10

- Q. 3 (A) Find Karl Pearson's correlation coefficient. (6)

Length	100	101	102	102	100	99	97	98	96	95
Weight	98	99	99	97	95	92	95	94	90	91

- (B) Find the regression coefficients b_{yx} and b_{xy} from the following data: (6)

x	21	22	23	24	25	26	27	28	29	30
y	17	19	19	20	23	24	27	26	28	27

OR

- Q. 3 (A) State the difference between Primary data and Secondary data. (6)
(B) Give the definition of median. Also write its merits and demerits. (6)
