



RAN-2510000101022003

F.Y.B.B.A. (Foreign Trade) (AICTE) (Sem. - I) Examination November - 2025 Basic Mathematics and Statistics (Paper - I)

Time: 2 Hours]
[Total Marks: 50
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. Define continuous compounding.
2. What is primary data?
3. State any two sources of secondary data collection,
4. Find the mean of: 1, 3, 5, 7, 9.
5. Define range.
6. Explain seasonal component of time series.
7. State the difference between correlation and regression.

Q.2. What is sampling? Explain Random sampling methods in detail.
(14)
OR

- a) Find mean of the following frequency distribution:

(07)

Class	5-14	15-24	25-34	35-44	45-54	55-64	65-74
f	8	11	15	25	20	13	8

- b) Find median of the following frequency distribution:

(07)

x	7.5	8	8.5	9	9.5	10	10.5	11
f	5	2	15	30	20	40	10	3

Q.3. What is Time series? Explain its components in detail.
(14)
OR

- a) Find the mode of the following frequency distribution:

(07)

Class	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45
f	2	6	12	26	15	10	7	1

- b) (I) Find Range and relative range from the following distribution. 158, 162, 160, 170, 165, 157. (07)
- (II) Find the standard deviation of: 2, 4, 6, 8, 10 observations.

Q.4. Short Note (Any three)

(12)

1. A Day count fraction
 2. Types of Yield curve
 3. Quota sampling
 4. Difference between Primary Vs Secondary Data collection
 5. Properties of regression coefficient.
-