

Fourth Semester Internal Examination, February 2026
Major Course in Economics
Analytical Tools for Economics-II
ECO4 CJ 205

Time: 1 Hr

Max Marks: 35

Name:	Marks Scored	Section A		Total Marks
Class:		Section B		
		Section C		

Section A

(Each question carries 3 marks, Max marks for section – 7)

1. Classical Definition of probability
2. What is Null Hypothesis?
3. Explain Conditional Probability

Section B

(Each question carries 6 marks, Max marks for section – 18)

4. Three Coins are tossed. What is the probability of getting
 (I)all heads (II) Exactly one head (III) Exactly two heads (IV) Atleast two heads
5. Define (I) Mutually Exclusive events (II) Equally Likely Events (III) Independent events and give example of each
6. Define Binomial Distribution
7. Define Normal Variate and Standard Normal Variate

Section C

(Answer any one question, Each question carries 10 marks)

8. Define F and T Statistics. Examine their uses in testing of hypothesis
9. If the mean and variance of a binomial distribution are 4 and 2 respectively. Find the probability of
 - a) Exactly two Successes
 - b) Less than two Successes
 - c) More than two Successes
 - d) At least two Successes