Mathabhanga College
Internal Assesment Test-2023
B.A.Honours 3rd Semester
Subject-Economics (Honours)
Paper Name-Microeconomics-II
Paper code-CC7

Time alloted-1 hour Full marks-20

The figures in the margin indicate full marks

Section -1

1. ***Answer any five from the following questions.*** 1x5=5

a) What do you mean by zero sum game ?
b) What is pay off matrix?
c) What is meant by basic solution in LPP problem?
d) What is feasible solution in LPP problem?
e) State the rules of dominance property.
f) The time path of Y is given as $Y^t=2^t+2$.Examine the stability of the equilibrium.
g) What is mixed strategy ?

Section-II

2. ***Answer any one from the following questions.*** 5x1=5

A) Find the dual of the following LPP problem

Maximise $Z=5x_1+6x_2$
Subject to $2x_1+3x_2 \leq 5$
$3x_1+4x_2 \leq 12$
$x_1-2x_2 \leq 6$
$x_{1\geq 0}, x_{2\geq 0}$

B) Solve the game whose payoff matrix is given by

	B1	B2	B3	B4
A1	1	7	3	4
A2	5	6	4	5
A3	7	2	0	3

Section-III

Answer any one from the following questions. ***10x1=10***

3 Solve the following LPP problem using simplex method

Maximise Z= 2X +5Y
Subject to $X+4Y \leq 24$
$3X+Y \leq 21$
$X+Y \leq 9$
And, $X,Y \geq 0$

4, A monopolist sells his product in two different markets. The demand curves faced by him in two markets are given as-

$P_{1=60-5}q_1$, $P_{2=\ 260-20q2}$

If the cost function of the monopolist is given by C =50+20q where q=q1+q2 find out the maximum profit of he monopolist can earn.