

KATWA COLLEGE
3rdSEMESTER HONOURS COURSE
INTERNAL ASSESSMENT EXAMINATION-2022
DEPARTMENT: ECONOMICS
SUBJECT: MATHEMATICAL ECONOMICS-II
COURSE CODE: CC-7

FULL MARKS - 10

DATE- 02/12/2022

TIME- 11 am – 11.30 am

Answer any five (5) questions

(5*2=10)

1. Define linear programming? What is feasible region in a linear programming problem?
2. Write the importance of the dual problem.
3. Define optimum solution in linear programming.
4. What is zero-sum game and what is saddle point?
5. Write the assumption of Leontief's input-output model.
6. Write the Hawkins-Simon condition.
7. Write the dual problem of the following linear programming problem

Minimise

$$w = 4u + 8v + 2w$$

Subjectto

$$1/2u + 2v + 4w \geq 4$$

$$u + v - 2w \geq 6$$

$$u \geq 0, v \geq 0, w \geq 0$$

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