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UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours 2nd Semester Examination, 2021

CC4-ECONOMICS (204)

MATHEMATICAL ECONOMICS

Full Marks: 60

 $20 \times 2 = 40$

20

20

ASSIGNMENT

The figures in the margin indicate full marks.

GROUP-A

Write any two questions from the following

Describe the Cobweb model mathematically and diagrammatically.

Find the value of the game of a 2X2 pay-off matrix with mixed strategy.

, ,	How do we interpret 1 st order differential equations with the help of Domar's Growth Model? Explain the Knife-edge problem of economic growth in this context.	10+10=20
4.	Explain the following concepts:	5×4 = 20
(a)) Saddle point	
(b)	Zero-sum Game and Two-person-zero-sum Game	
(c)	Fair Game and Strictly determinable Game	
(d)	Pay-off Matrix.	
GROUP-B		
	Write any two questions from the following	$10 \times 2 = 20$
5.	Describe Solow growth model mathematically.	10
6.	Write the assumptions of two-person-zero-sum game. Explain the two-person-zero-sum game with pay-off matrix.	4+6=10
7.	Explain the Dominance property of game theory with the help of a numerical example.	10
7. 8.		10 10

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