BACHELOR OF ARTS EXAMINATION, 2023

(3rd Year, 6th Semester, Supplementary)

ECONOMICS

TOPICS IN MICROECONOMICS II

Time: Two Hours Full Marks: 30

Attempt question no. 1 and any one from the rest:

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(1). Suppose there are two gambles. In gamble 1 an individual has to pay Rs. 100 in order to win Rs. 500 with probability p or win Rs. 100 with probability (1-p). In gamble 2 an individual has to pay Rs. 100 for the chance of winning Rs. 325 with probability p and Rs. 136 with probability (1-p). Suppose there are two individuals. Both are expected utility maximizers. Individual A has Bernoulli utility function $u(w) = \sqrt{w}$ and Individual B has Bernoulli utility function u(w) = w. Check who prefers which gamble and find out the conditions (if any).

(8+7)

(2). Consider the following one shot game:

	Player 2		
		X	Y
Player-1	X	4, 4	-2, 4
	Y	4, -2	0, 0

- (i). What will be the pure strategy Nash equilibrium of this game? What kind of Nash equilibrium is it?
- (ii). If the game is played for **2 periods** then how many elements will be there in each player's strategy set?
- (iii). Suppose the players play the game for 6 periods. What will be the pure strategy Nash equilibrium of the game in each period? Argue.

(iv). Is it possible to support any other payoff(s) as an equilibrium if the players play repeatedly? (Make proper assumptions to solve and argue properly)

(3+3+3+6)

- (3). Write short notes on the following:
 - (A). Hidden Information. (B). Simple lottery and compound lottery.

(8+7)