1.

2023

Time - 3 hours

Full Marks - 80

Answer all groups as per instructions.

Figures in the right hand margin indicate marks.

GROUP - A

Fi	Il in the blanks. (all)
(a) The ratio between change in the quantities of goods-Y and change in the quantity of goods-X is known as
(b) Indifference curves are right-angled in case of
(c) If X and Y are two goods and M is money income the general equation of the budget line is
(d) If x ₁ , x ₂ , x ₃ , x _n are n-number of goods, then the first order condition of utility maximisation is
(e) Indirect utility function takes into account of a consumer which direct utility function ignores.
(f)	Law of variable proportion is a production function.
(g) At the end of Stage-II of the law of variable proportion, MP =

(h)	CES production function is homogeneous of degree	
(1)	In Cobb-Douglas production function, if $\alpha + \beta = 1$, then there is returns to scale.	
0)	The conditions for least cost combination of a firm areand	
(k)	When marginal revenue is negative, total revenue	
(1)	The first order condition of profit maximization is	
GROUP - B		
Answer any eight of the following questions within two to three sentences each. [2 × 8		
(a)	What is the axim of transitivity?	
(b)	What is income consumption curve ?	
(c)	What is indirect utility function?	
(d)	What is expenditure function?	
(e)	What is point of inflexion ?	
(f)	What is meant by internal economies ?	
(9) What is MRTS ?	
12	What is averaging and a	

- (i) What is cost function?
- (j) What are the conditions for equilibrium of a firm?

GROUP - C

3. Write notes on any eight of the following within 75 words each.

[3 × 8]

- (a) Budget constraint
- (b) Hicksian consumer's surplus
- (c) Backward Sloping Price Consumption Curve
- (d) Hicksian substitution effect
- (e) Point elasticity of demand
- (f) Increasing returns to scale
- (g) Cobb-Douglas production function
- (h) U-shape of short-run average cost curve
- (i) Conditions for cost minimization
- (j) Input demand

GROUP - D

Answer all questions within 500 words each.

 Explain with diagram some exceptional shapes of indifference curve.

OR

Explain the utility Maximization conditions in the n-goods case.

 Explain with diagram, the concept of compensated demand curve and state how it differs from ordinary demand curve. [7

OR

Explain Hicksian method of decomposition of price effect into income effect and substitution effect.

 Explain the cost minimizing input choice both mathematically and with the help of diagram.

OR

Explain the law of variable proportion with the help of diagram.

 Explain with the help of diagram, the general conditions of profit maximization of a firm.

OR

Discuss the relationship between AR, MR and elasticity of demand.