

QP CODE: D1BST2506

(Pages: 2)

Reg. No :

Name :

First SEMESTER FYUGP (Regular) EXAMINATION, NOVEMBER 2025

Discipline Specific Core (DSC) Courses - Minor

STA1MN151 : Analytical Economics

(Credits: 4)

Time: 2 Hours

Maximum Marks: 70

Section A

Answer the following questions. Each carries 3 marks (Ceiling: 24 marks)

1. What do you mean by supply schedule?	BL1	CO1, CO2, CO3, CO4,
2. Comment on "Utility" in economics.	BL1	CO1, CO2, CO3, CO4,
3. State the meaning of negative income elasticity.	BL1	CO1, CO2, CO4, CO5
4. What is Price Consumption Curve?	BL1	CO1, CO2, CO3, CO4
5. What is budget line?	BL1	CO1, CO2, CO3, CO4, CO5
6. What is the meaning of consumer behavior?	BL2	CO1, CO2, CO3, CO4, CO5
7. What is producer's equilibrium?	BL2	CO1, CO2, CO3, CO4, CO5
8. State the main feature of Stage III of production.	BL2	CO1, CO2, CO3, CO4, CO5
9. What is the feasible region in LPP?	BL2	CO1, CO2, CO3, CO4, CO5
10. What are decision variables in an LPP?	BL2	CO1, CO2, CO3, CO4, CO5

Section B

Answer the following questions. Each carries 6 marks (Ceiling: 36 Marks)

11. What is the relevance of analytical thinking in economics?	BL2	CO1, CO2, CO3, CO4, CO5
12. Explain the income effect of demand.	BL2	CO1, CO2, CO3, CO4, CO5

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13. What do you mean by indifference curve? What are the characteristics of indifference curves?	BL2	CO1, CO2, CO3, CO4, CO5																		
14. Explain the law of diminishing marginal utility with diagram.	BL1	CO1, CO2, CO3, CO4, CO5																		
15. Compare the nature of production decisions in the short run and long run	BL2	CO1, CO2, CO3, CO4, CO5																		
16. Explain returns to scale with the aid of isoquants	BL2	CO1, CO2, CO3, CO4, CO5																		
17. Given the input-output table given below, Find technical coefficients and show that the Hawkin-simon conditions are satisfied.	BL3	CO1, CO2, CO3, CO4, CO5																		
<table border="1"> <thead> <tr> <th rowspan="2">Sectors</th> <th colspan="3">Purchasing Sector</th> <th rowspan="2">Total Output</th> </tr> <tr> <th>Agriculture</th> <th>Industry</th> <th>Final Demand</th> </tr> </thead> <tbody> <tr> <td>Agriculture</td> <td>6</td> <td>2</td> <td>12</td> <td>20</td> </tr> <tr> <td>Industry</td> <td>4</td> <td>2</td> <td>9</td> <td>15</td> </tr> </tbody> </table>			Sectors	Purchasing Sector			Total Output	Agriculture	Industry	Final Demand	Agriculture	6	2	12	20	Industry	4	2	9	15
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18. 'Every LPP has a dual problem' Analyse this statement with an example.	BL4	CO1, CO2, CO3, CO4, CO5																		

Section C

Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)

19. For a production function $Q = A L^\alpha K^{(1-\alpha)}$ explain any five properties .	BL2	CO1, CO2, CO3, CO4, CO5
20. Distinguish between closed and open input-output models with an example.	BL2	CO1, CO2, CO3, CO4, CO5

CO : Course Outcome

BL : Bloom's Taxonomy Levels (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)