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**St Aloysius College(Autonomous)**

**Mangaluru**

**Semester IV – P.G. Examination- M.A. ECONOMICS**

ST.ALOYSIUS COLLEGE

**April -2025**

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**Public Economics**

Time: 3Hours

Max. Marks: 70

**SECTION - A**

**Answer any TWO of the following:** (2x15=30)

1. How do externalities contribute to market failures? Discuss with suitable examples.
2. Describe Musgrave's approach to measuring tax incidence. How does this approach help in understanding who ultimately bears the burden of a tax?
3. Explain the objectives and tools of fiscal policy in the context of under developed countries. How can these economics achieve macroeconomics stability through fiscal measures?

**SECTION - B**

**Answer any FOUR of the following:** (4x6=24)

4. Why do market failures occur in the provision of public goods, and how can the government address them?
5. What is internal rate of return, and how is it used in project evaluation?
6. In what ways does Program Budgeting assist in long-term financial planning?
7. How is income and wealth distributed in an economy, and what factors influence this distribution?
8. How can shadow pricing be used in cost-benefit analysis?
9. Explain the implications of arrow's impossibility theorem on democratic governance.

**SECTION - C**

**Answer any FOUR of the following:** (4x4=16)

10. What is the Decentralization Theorem, and how is it relevant to India?
11. What are corrective taxes, and how do they improve efficiency?
12. What is the difference between real and pecuniary externalities?
13. Explain different types of evaluations.
14. What is the primary goal of the government's distribution function?
15. What are the essential features of a well-structured tax system?

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**Semester IV – P.G. Examination – M.A. ECONOMICS**

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**April - 2025**

**INDIAN ECONOMY**

**Time: 3 Hours**

**Max. Marks: 70**

**SECTION - A**

**Answer any TWO of the following:**

**(2x15=30)**

1. Examine the recent population policy of India.
2. Elaborate on various sources of agricultural finance in India.
3. Explain the role and challenges of MSMEs in India.

**SECTION – B**

**Answer any FOUR of the following:**

**(4x6=24)**

4. Explain the composition of India's GDP.
5. Examine the causes of poverty in India.
6. Explain the Agricultural Pricing Policy of India.
7. Examine the causes of industrial disputes in India.
8. Give an account of balance of payments position in India.
9. Elaborate on the need for and issues involved in good governance.

**SECTION – C**

**Answer any FOUR of the following:**

**(4x4=16)**

10. Explain the concept of inclusive growth.
11. Briefly explain composition of population in India.
12. Write a note on, "Green revolution".
13. Give an account of parallel economy in India.
14. Write a note on, "FDI policy in India".
15. Write a note on, "NITI Aayog".

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**Semester IV – P.G. Examination – M.A. ECONOMICS**

**April -2025**

**ECONOMICS OF INSURANCE**

**Time: 3 Hours**

**Max. Marks: 70**

**SECTION - A**

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**Answer any TWO of the following:**

**(2x15=30)**

1. Examine the role of risk management and insurance in economic development.
2. Describe the role of insurance policies in the retirement planning strategies.
3. Explain the method of rate making in general insurance.

**SECTION – B**

**Answer any FOUR of the following:**

**(4x6=24)**

4. What is risk pooling and risk transfer in insurance?
5. Discuss the role of underwriters and agents in Insurance.
6. Explain the legal aspects of life insurance.
7. Examine how life insurance policies are designed to meet the various financial need of individuals at different life stages.
8. Explain the mechanism of premium tables.
9. Discuss the principles of insurance.

**SECTION – C**

**Answer any FOUR of the following:**

**(4x4=16)**

10. Explain the relationship between risk and uncertainty.
11. What is reinsurance?
12. Explain the significance of fire insurance and marine insurance.
13. What do you mean by peril? Explain the types of perils.
14. Write a note on IRDAI.
15. Briefly explain the concepts of Group Insurance in India.

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**Semester IV – P.G. Examination – M.A. ECONOMICS**

April/May - 2025

**OPERATIONS RESEARCH FOR ECONOMIC ANALYSIS**

Time: 3 Hours

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Max. Marks: 70

**SECTION - A**

**Answer any TWO questions of the following: (2x15=30)**

1. Explain the significance of operations research for economic analysis.
2. Larsen and Toubro construction Company needs 3, 3, 4 and 5 million cubic feet of fill at four earthen dam sites I, II, III and IV in Karnataka. It can transfer the fill from three mounds A, B, and C where 2, 6 and 7 million cubic feet of fill is available respectively. Costs of transportation of one million cubic feet of fill from mounds to the four sites in lakhs are given in the following table.

FROM	TO				Supply
	I	II	III	IV	
A	15	10	17	18	2
B	16	13	12	13	6
C	12	17	20	11	7
Demand	3	3	4	5	

Determine the optimum transportation plan which minimizes the total transportation cost to the company.

3. Given the following data, find an optimal solution using simplex method.

$$\text{Max } Z = 6x_1 + 8x_2$$

$$\text{Subject to } 30x_1 + 20x_2 \leq 300$$

$$5x_1 + 10x_2 \leq 110$$

$$x_1, x_2 \geq 0$$

**SECTION - B**

**Answer any FOUR questions of the following: (4x6=24)**

4. The manager of a depot has four subordinates to perform three tasks. Since the efficiency of each subordinate is different, the estimated time taken by each subordinate to perform these four tasks would be different. These estimated times are given in the matrix below:

Workers	Estimated time (Minutes)		
	T1	T2	T3
W1	19	36	25
W2	23	37	16
W3	45	30	25
W4	28	40	30

Suggest the optimal assignment of the tasks to each person so as to minimize the total time to perform these three tasks.

5. Solve the following using north west corner method.

Plants	Warehouses				Supply/Capacity
	W1	W2	W3	W4	
P <sub>1</sub>	6	2	6	12	120
P <sub>2</sub>	4	4	2	4	200
P <sub>3</sub>	13	8	7	2	80
Demand	50	80	90	180	400

6. Solve graphically

$$\text{Max } Z = 4x_1 + 5x_2$$

$$\text{Subject to } 2x_1 + 3x_2 \geq 12$$

$$x_1 + x_2 \leq 4$$

$$4x_1 + 3x_2 \geq 18$$

$$x_1, x_2 \geq 0$$

7. Hyderabad Company dealing with Mango Frosti drink is currently experiencing a problem in selecting the distribution channel. Appointment of regional distributors and direct selling are two considerations before it. Each of these alternatives may result in high or low demand for its products.

a) Present the data through a decision tree and

b) Analyse the decision situation if the monetary gains for high demand corresponding to the appointment of regional distributors and direct selling are estimated to be Rs.35 lakhs and Rs.25 lakhs respectively. The corresponding monetary gains in case of low demand are Rs.5 lakhs and Rs.10 lakhs. The probabilities for high and low demand are estimated as 0.65 and 0.35 respectively.

8. Discuss the scope of operations research.
9. With the help of a numerical illustration, explain the procedure of reducing the game problem to LPP.

### SECTION - C

Answer any **FOUR** questions of the following:

(4x4=16)

10. Solve following game using the dominance concept.

		Player B		
		B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>
Player A	A <sub>1</sub>	4	5	8
	A <sub>2</sub>	6	4	6
	A <sub>3</sub>	4	2	4

11. Distinguish between 'balanced' and 'unbalanced' transportation problem.
12. Explain saddle point with the help of a numerical example.
13. Give a note on LPP.
14. Use Laplace criterion for the following.

State of nature	Course of action		
	A	B	C
P	20	12	25
Q	25	15	30
R	30	20	32

15. Explain two person zero-sum game with a suitable example.

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