## ECONOMICS

<table>
<thead>
<tr>
<th>Scheme</th>
<th>Min. Pass Marks</th>
<th>Max. Marks</th>
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<tbody>
<tr>
<td>Arts</td>
<td>72</td>
<td>200</td>
</tr>
<tr>
<td>Science</td>
<td>54</td>
<td>150</td>
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<tr>
<td>Paper-I</td>
<td>3 hours duration</td>
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<td></td>
<td>Arts 100</td>
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<td></td>
<td>Science 75</td>
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<tr>
<td>Paper-II</td>
<td>3 hours duration</td>
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<td></td>
<td>Arts 100</td>
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<td></td>
<td>Science 75</td>
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**Note:** 1. There shall be two papers in each class. Each paper shall have 3 questions from every unit. In addition to these nine questions (3 questions for each unit) there shall be one multiple choice/objective type/short answer question in each of the two papers.

This question shall be compulsory.

2. The student shall be required to attempt five questions in all in each paper selecting at least one question from each unit and one compulsory multiple choice/objective type/short answer question.

3. The multiple choice/objective type/short answer question shall consist of 20 questions in B.A. Examination and 15 questions in B. Sc. examination of one mark each.

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Professor & Head  
Department of Economics  
University of Rajasthan, Jaipur
Paper - (I) Introduction to International Trade, Development and Public Economics

Section – A


Section B


Section – C


Books Recommended:

B.A./B.Sc. Part-III

Paper –II (a): Applications of Mathematics in Economics

Section-A

Differential Calculus and Integral Calculus: Applications in Economics; Matrix and Determinants; Solution of Simultaneous Equations; Maxima and Minima; Convexity and Concavity.

Theory of Consumer Behaviour: Nature of a Utility Function; Properties of an Indifference Curve, Maximization of Utility, Demand Functions- Ordinary and Compensated, Price and Income Elasticity, Elasticity Relations in Demand Analysis, Slutsky Equation in two Commodity Case, Elasticity Form and Important Results; Income and Leisure - Derivation of Labour Supply Function and its Properties.

Section –B

Theory of Firm: Production Function- Properties of a Well Behaved and Homogeneous Production Functions - Cobb-Douglas and CES Production Functions; Product Curves; Output Elasticity of Factor Input; Properties of an Isoquant; Elasticity of Substitution of a Homogeneous Production Function- Linearly Homogeneous and Cobb-Douglas Production Functions; Optimization Behaviour of a Firm- Constrained Cost Minimization, Constrained Output Maximization and Profit Maximization; Input Demand Functions- Properties and Derivation of Producer’s Input Demand functions; Cost Functions- Properties and Derivation of Short Run and Long Run Cost functions; Consumer’s and Producer’s Surplus.

Section-C

Linear Programming: Graphical and Simplex Method (Maximization Problem Only); Input-Output Analysis: Concepts of Static, Dynamic, Closed and Open Input - Output Models, Hawkins-Simon Conditions of Viability, Determination of Gross Output, and Value Added in Open Input –Output Model; Theory of Games: Two-Person Constant Sum Games, Zero-Sum Game, Maximin and Minimax, Dominant Strategies and Saddle Point Solution; First Order Difference Equation- Cobweb Model.

Note: Use of Non-Programmable Calculator is Permitted.

Books Recommended:

2. RGD Allen, Mathematical Economics, McMillan
B.A./B.Sc. Part-III: Economics

Paper – II (b) Environmental Economics

Section – A

Environmental Economics: Meaning, Nature, Scope and Significance; Economic Development and the Environment; Common Property Resources and their Depletion, Ecosystems – Loss of Biodiversity; Sustainable Development; Environmental Problems of Industrial Development: Water Pollution, Air Pollution, Noise Pollution; Depletion of Ozone Layer- Carbon Credit; Environmental Problems of Agricultural Development- Salinity, Water Logging, Desertification of Land; Excess Use of Water, Fertilizers and Pesticides, Farm Implements Cropping Pattern; Natural Farming; Forest Depletion: Causes and Impact.

Section-B

Role of Various Sectors in Environment Protection: Role of Public / Government, Private, Co-operative Sectors and NGOs in Environment Protection; Environmental Policy in India: Environment Protection Laws in India, Central pollution Control Board, State Pollution Control Boards, Local Bodies and Environment Protection.

Section-C


Books Recommended: