

F.Y.B. Com (Logistics and SCM) Semester - I
Subject: Micro Economics

Date: 3-10-25

Duration: 1 hour

Marks: 30 marks

Instructions for the candidate:

1. This question paper contains 2 pages
2. Q.1 is Compulsory.
3. Attempt any 2 from Q. 2 to Q.4.
4. Answers to each new question should begin on a fresh page.
5. Figures on the right-hand side indicate full marks.
6. Use of simple calculator is allowed.

Q 1	Answer the following	10 marks
	<p>Case Study: Opportunity Cost in a Tech Start-up</p> <p>A tech startup faced a strategic decision between developing a mobile app or launching an AI-based service platform. Applying the principle of opportunity cost, the management analyzed the benefits and potential returns of each option. They realized that focusing resources on one option means forgoing the benefits of the other.</p> <p>Opportunity cost, therefore, is critical in decision-making to ensure that scarce resources are used where they yield the highest returns. The management also recognized that opportunity costs are not solely monetary; time, effort, and market positioning play important roles. Additionally, risk considerations were factored into the decision, and tools like cost-benefit analysis helped in comparing alternatives.</p> <p>The start-up ultimately selected the AI service after realizing it offered a higher long-term strategic advantage given market trends and competitive gaps.</p> <p>Questions:</p> <p>Q1. What is an opportunity cost?</p> <p>Q2. Why is opportunity cost important in decision making?</p> <p>Q3. How does the concept of opportunity cost apply to this case study?</p>	

	Q4. Is opportunity cost always monetary?	
	Q5. Why did the start-up selected the AI service?	
Q 2	Answer the following	
A	Explain the Importance of Business Economics.	5 marks
B	Explain the relationship between TR, AR and MR under perfect competition.	5 marks
Q 3	Answer the following	
A	Explain the nature of demand curve under oligopoly.	5 marks
B	Explain the promotional elasticity of demand.	5 marks
Q 4	Answer the following	
A	Construct a demand schedule and demand curve from the following equation: $Q_d = 350 - 14P$, Assume the price to be Rs.10,15, 20 and 25.	5 marks
B	Discuss the factors influencing elasticity of demand.	5 marks

F.Y.B. Com (Logistics and SCM) Semester - II

Subject: FUNDAMENTALS OF LOGISTICS

Date: 8/10/2025

Duration: 1 hour

Marks: 30 marks

Instructions for the candidate:

1. This question paper contains 1 page
2. Q.1 is Compulsory..
3. Attempt any 2 from Q. 2 to Q.4.
4. Answers to each new question should begin on a fresh page.
5. Figures on the right-hand side indicate full marks.
6. Use of simple calculator is allowed.

Q 1	Answer the following	10 marks
	What are the functions of Logistics	
Q 2	Answer the following	
A	Write on Rail road transport with advantages and disadvantages	5 marks
B	What are the factors that influence cross docking?	5 marks
Q 3	Answer the following	
A	What is Logistics and give any three importance of Logistics	5 marks
B	What is Material Handling and write any five principals of Material Handling.	5 marks
Q 4	Answer the following	
A	What is a public warehouse and what are the advantage?	5 marks
B	What is stock piling and when is stock piling done?	5 marks

F.Y.B. Com (Logistics and SCM) Semester - I

Subject: QUANTITATIVE METHODS I

Date: 10/10/25

Duration: 1 hour

Marks: 30 marks

Instructions for the candidate:

1. This question paper contains 2 pages
2. Q.1 is Compulsory.
3. Attempt any 2 from Q. 2 to Q.4.
4. Answers to each new question should begin on a fresh page.
5. Figures on the right-hand side indicate full marks.
6. Use of simple calculator is allowed.

Q 1	Answer the following	10 marks														
	<p>Following data represent attendance record in days of 30 students. 74, 45, 32, 64, 50, 65, 75, 50, 60, 66, 58, 52, 35, 45, 40, 37, 41, 51, 47, 61, 59, 60, 57, 52, 55, 49, 40, 50, 46, 60</p> <p>a) Construct frequency distribution table by taking classes 30-40, 40-50 & so on. b) Draw frequency polygon to represent given distribution c) Calculate average attendance of 30 students.</p>															
Q 2	Answer the following															
A	<p>Calculate median & mode of the given distribution</p> <table border="1" style="margin-left: 20px; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Height in inches</td> <td style="padding: 5px;">10-12</td> <td style="padding: 5px;">12-14</td> <td style="padding: 5px;">14-16</td> <td style="padding: 5px;">16-18</td> <td style="padding: 5px;">18-20</td> </tr> <tr> <td style="padding: 5px;">Number of plants in nursery</td> <td style="padding: 5px;">100</td> <td style="padding: 5px;">120</td> <td style="padding: 5px;">180</td> <td style="padding: 5px;">130</td> <td style="padding: 5px;">120</td> </tr> </table>	Height in inches	10-12	12-14	14-16	16-18	18-20	Number of plants in nursery	100	120	180	130	120	5 marks		
Height in inches	10-12	12-14	14-16	16-18	18-20											
Number of plants in nursery	100	120	180	130	120											
B	<p>A sample of 10 pairs of observation of x & y lead to the following result. $\sum x = 450, \sum y = 420, \sum x^2 = 42100, \sum y^2 = 38200, \sum xy = 38600$ Calculate Karl Pearson's correlation coefficient between x & y</p>	5 marks														
Q 3	Answer the following															
A	<p>Following data represent runs made by batsman & wickets taken by bowler in 6 different Calculate coefficient of range for both players & suggest performance of which player is better</p> <table border="1" style="margin-left: 20px; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Runs</td> <td style="padding: 5px;">45</td> <td style="padding: 5px;">120</td> <td style="padding: 5px;">67</td> <td style="padding: 5px;">80</td> <td style="padding: 5px;">48</td> <td style="padding: 5px;">60</td> </tr> <tr> <td style="padding: 5px;">Wickets</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> </tr> </table>	Runs	45	120	67	80	48	60	Wickets	5	4	3	5	3	4	5 marks
Runs	45	120	67	80	48	60										
Wickets	5	4	3	5	3	4										
B	<p>Discrete random variable X follows probability distribution given below</p> <table border="1" style="margin-left: 20px; border-collapse: collapse;"> <tr> <td style="padding: 5px;">X</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">5</td> </tr> <tr> <td style="padding: 5px;">p_i</td> <td style="padding: 5px;">k</td> <td style="padding: 5px;">$3k$</td> <td style="padding: 5px;">$5k$</td> <td style="padding: 5px;">$2k$</td> <td style="padding: 5px;">k</td> </tr> </table> <p>a) Find the value of k b) Find $P(2 < X \leq 5)$ c) Find $P(X > 3)$ d) Find $P(X \leq 2)$ e) Find $P(2 \leq X < 4)$</p>	X	1	2	3	4	5	p_i	k	$3k$	$5k$	$2k$	k	5 marks		
X	1	2	3	4	5											
p_i	k	$3k$	$5k$	$2k$	k											

Q 4	Answer the following										
A	Calculate trend values by 4 yearly moving average method										5 marks
	Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	
	Population in Lakhs	54	60	66	68	72	75	80	85	89	
B	Calculate 4 th decile & 65 th percentile										5 marks
	Weight in gm	50-60	60-70	70-80	80-90	90-100					
	Number of mangoes sold	23	37	40	25	15					

F.Y.B. Com (Logistics and SCM) Semester - I

Subject: Communication Skills-I

Date: 13th OCT, 2025

Duration: 1 hour

Marks: 30 marks

Instructions for the candidate:

1. This question paper contains one page.
2. Q.1 is Compulsory.
3. Attempt any 2 from Q. 2 to Q.4.
4. Answers to each new question should begin on a fresh page.
5. Figures on the right-hand side indicate full marks.
6. Use of a simple calculator is allowed.

Q 1	Answer the following	10 marks
	Draft a Letter of Application with Curriculum Vitae for the post of Assistant Teacher (English) at Green Valley High School. Use a full-block layout.	
Q 2	Answer the following	
A	Define communication. Explain its process with a neat diagram.	5 marks
B	What is grapevine communication? Describe its different types.	5 marks
Q 3	Answer the following	
A	What are physical barriers in communication? Explain with examples.	5 marks
B	Explain oral and written communication with suitable examples.	5 marks
Q 4	Answer the following	
A	Distinguish between active listening and passive listening.	5 marks
B	Summarize the following passage. Reading is one of the most useful habits a person can develop. It not only increases knowledge but also improves language and thinking skills. Through books, magazines, and newspapers, we are introduced to new ideas, cultures, and perspectives. Reading helps in building vocabulary and improves concentration. It also sharpens memory and analytical skills by encouraging us to think critically about what we read. For students, reading is very important as it strengthens understanding of subjects and improves academic performance. Apart from studies, reading storybooks, novels, and biographies can provide relaxation, entertainment, and inspiration. In today's digital world, where social media often takes most of our time, the habit of reading keeps the mind active and reduces stress. Cultivating the habit of daily reading is therefore one of the best investments in self-development and personal growth.	5 marks

L.S.C.M.

DATE: 15-10-25

SEAT NO. _____

Duration: _____ hours

Marks: _____

- Instructions: - (1) Question No. 1 is **compulsory**
 (2) Attempt **any Two** questions from Question nos 2, 3 & 4
 (3). Figures to the right indicate full marks
 (4) Use of simple calculator is allowed

Q:1	Read the given Map carefully and give answers to the questions given below	10
<p>Legend Age Groups Above 65 15 - 64 0 - 14</p> <p>WORLD : AGE STRUCTURE (2015)</p>		
1.	What is the theme of the map?	1
2.	Which cartographic technique is used to represent the theme?	1
3.	According to the map, which country shows the maximum percentage of elderly population and give reasons for your answer.	2
4.	According to the map, which country shows the maximum percentage of dependent minor population and give reasons for your answer.	2
5.	With the help of the scale, find out the approximate percentage of population between the age group of 15-64 years in China.	1
6.	State the composition of age structure of Indian population.	3
Q:2	Answer the following questions:	10
A)	Explain the term Ecosystem and classify its types.	5
B)	Describe the factors influencing the utilization of the natural resources?	5
Q:3	Answer the following questions:	10
A)	Elucidate the concept & discuss on significance of Ecological footprint	5
B)	Deliberate on the need and methods for Management & conservation of soil	5
Q:4	Write Short Notes on:	10
A)	Trophic Cascades	5
B)	Energy Crisis	5

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Date - 17/10/25

F.Y.B. Com (Logistics and SCM) Semester - I
BASICS OF INDIAN KNOWLEDGE SYSTEM

(Time: 60 min)

Total Marks: 30

Instructions:

1. Q.1 is Compulsory.
2. Attempt any 2 from Q. 2 to Q.4.
3. Figures to the right indicate full marks.

1. Read the passage and answer the following questions given below: -

10

PASSAGE: -

The introduction of metals, especially iron, marked an important phase in the history of deforestation in India. In the early Vedic period, the Aryans probably did not know iron, using the word *ayas* for metals in general. Archaeological findings suggest that iron appeared in India between 1000 and 800 B.C., and its tools made the cutting of large trees much easier. This innovation allowed agricultural groups to settle in forested regions, particularly as the Aryans moved eastward into the Gangetic plains.

When the Aryans arrived in north-west India, described in the Rigveda as *Sapta Sindhas* or the land of seven rivers, they began settling around 1400 B.C., first in Punjab and later across wider regions. Being both pastoral and agricultural, they required land for crops and grazing. To meet these needs, forests were cleared using fire, stone axes, and eventually iron implements. The burning of the *Khandava* forest in the *Mahabharata* symbolically represents such destruction through fire and deforestation.

During the early Vedic phase, forests were not destroyed for city building, as India had no major urban centers after the fall of the Harappan culture. Between this decline and the rise of the "second urbanization" around the 6th century B.C., historians note a thousand-year "Dark Age." Throughout this period, the Aryans lived amidst forests, mainly along riverbanks, clearing areas for villages and farmlands. Wood was central to their lives, used for cottages, carts, chariots, and fuel. Clearing of forest tracts also became necessary for creating roads and pathways to connect settlements.

Thus, Aryan expansion steadily accelerated deforestation, driven by agriculture, animal rearing, and communication needs. From ancient times, human survival and progress in India relied heavily on forest exploitation, laying the roots of deforestation deep in its early history.

Questions:-

1. What role did iron play in the history of deforestation in India?
2. How did the Aryans clear forests before the use of iron implements?
3. What does the burning of the *Khandava* forest in the *Mahabharata* symbolize?
4. Why were forests cleared during the early Vedic phase?
5. How was wood important in the lives of the Aryans?

2. Answer the following:

- a. Explain wastewater management practices in Ancient India. 5
- b. Describe the historical perspective of ancient tourism in India. 5

3. Answer the following:

- a. Explain the significance of town planning in Ancient India with suitable examples. 5
- b. Explain how Ancient Indian Stone masonry techniques influence other civilizations? 5

4. Answer the following:

- a. Explain the features of town planning during the Indus Valley Civilization. 5
- b. Discuss the role of early trade routes of the world in promoting tourism and cultural exchanges in Ancient India. 5