

SYE NVT MG-T-ECO

Sem-III

OCT - 2019

**QUESTION PAPER**

**S.Y.B.M.S [ENVT]**

**SEM-III**

**OCT. - 2019**

Date:-04/10/2019

Seat Number:-\_\_\_\_\_

Time : 2.30 hrs

Env. Mgmt Sem III

Marks : 75

SUB :- ENV. ECONOMICS

Q.1) Attempt any (2)

(15)

- a) what is Supply? explain the factors affecting supply?
- b) Explain the administrative & incentives base activities to control environment problem?
- c) Distinguish between micro and macro economics?

Q.2) Attempt any (2)

(15)

- a) What is commercial sources of energy and explain its sources?
- b) Distinguish between renewable & non-renewable sources of energy.
- c) What is energy and explain sources of energy with diagram?

Q.3) Attempt any (2)

(15)

- a) Elaborate the structure of ecosystem?
- b) Explain concept of technical optimism with example?
- c) Write note on biotic & abiotic component.

Q.4) Attempt any (2)

(15)

- a) Discuss the impact of SAFTA on growth of international trade & environment?
- b) Elaborate TRIMs, TRIPs & AOA agreement.

c) What is ASEAN & write the objectives of ASEAN.

**Q.5) Write a short note on**

(15)

a) Traditional sources of energy.

b) Factors influencing Demand.

c) Technical Pessimism.

d) SAARC

e) Features of micro economics.

Date:-05/10/2019

Seat Number:- \_\_\_\_\_

Time : 2.30 hrs

Env. Mgmt Sem III

Marks : 75

SUB :- Marketing Mgmt

- Q.1. Attempt any two 15
- A. What are 4Ps of Marketing?
  - B. What are functions of Marketing Management?
  - C. What is E- Marketing? Why is it important in today's times?
- Q.2. Attempt any two 15
- A. Define Marketing Environment. Explain role of suppliers in marketing.
  - B. Explain Macro environment in marketing.
  - C. Discuss importance of information in Marketing.
- Q. 3. Attempt any two 15
- A. Define MIS and explain its components.
  - B. What are objectives of Marketing Research?
  - C. State difference between MIS and MR.
- Q.4. Attempt any two 15
- A. Discuss AIDA Model of Advertising.
  - B. Explain advantages of Product and Sales Research.
  - C. What are important factors that affect consumer behaviour?
- Q.5. Write short notes on any three 15
- 1. Brand Equity.
  - 2. Segmentation
  - 3. Product Development Cycle
  - 4. Types of Pricing
  - 5. Functions of Distribution Channels

Date :-07/10/2019

Env. Mgmt Sem III

Time :-2.30 hr.

Sub:- RMB

Marks:-75

<b>Q.1)</b>	<b>Answer the following:</b>	<b>15</b>
A]	Explain the various methods in Qualitative Approach to Research	<b>08</b>
B]	What are the advantages of Research Design?	<b>07</b>
	OR	
C]	What the types of Research?	<b>08</b>
D]	Explain the role of Ethics in Research	<b>07</b>
<b>Q.2)</b>	<b>Answer the following:</b>	<b>15</b>
A]	Explain characteristics of research design.	<b>08</b>
B]	Explain any 8 steps in Research Design	<b>07</b>
	OR	
C]	Explain Exploratory Research Design	<b>08</b>
D]	Explain in detail – Hypothesis Testing	<b>07</b>
<b>Q.3)</b>	<b>Answer the following:</b>	<b>15</b>
A]	Explain the meaning and importance of hypothesis.	<b>08</b>
B]	Write a short note on Chi-Square test.	<b>07</b>
	OR	
C]	Explain Regression Analysis	<b>08</b>
D]	State the different types of survey methods	<b>07</b>
<b>Q.4)</b>	<b>Answer the following:</b>	<b>15</b>
A]	What is the Format of Research Report?	<b>08</b>
B]	Explain the features of Primary Data.	<b>07</b>
	OR	
C]	Explain the meaning and importance of Report Writing.	<b>08</b>
D]	Explain the characteristics of Secondary Data	<b>07</b>
<b>Q.5</b>	<b>Write short notes: (Any three)</b>	<b>15</b>
1.	Confidentiality	
2.	Regression Analysis	
3.	Methods of Probability Sampling Technique (Any5)	
4.	Observation method	
5.	Types of Research Reports.	

Date:-09/10/2019

Seat Number:- \_\_\_\_\_

Time : 2.30 hrs

Env. Mgmt Sem III

Marks : 75

**Subject: Global Warming and Climate Change**

- N. B.: (1) **All** questions are **compulsory**.  
(2) Numbers to the **right** indicate **marks**.

**Q.1. Answer the following. (Any 2)**

15

- A. What are the possible impacts of climate change on India?  
B. What is Photochemical smog? Which are the primary and secondary pollutants responsible for it?  
C. Name layers of the Earth's atmosphere and explain their characteristics.

**Q.2. Answer the following. (Any 2)**

15

- A. With the help of examples, explain adaptation and mitigation policies.  
B. "Cities like Beijing and Los Angeles experience smog every winter." Explain.  
C. What is Stratospheric Ozone? State the pollution management strategies that can be implemented to protect it from depletion.

**Q.3. Answer the following. (Any 2)**

15

- A. "Climate change may adversely affect the poor and developing countries." Explain with examples.  
B. State the factors on which the formation and severity of smog depends. What are the pollution management strategies for smog?  
C. Explain the role of IPCC in combating climate change.

**Q.4. Answer the following. (Any 2)**

15

- A. "The effects of climate change may be both – negative and positive." Explain.  
B. Explain the importance of Kyoto Protocol.  
C. Explain carbon tax and cap and trade system.

**Q5. Write Short notes (Any three)**

15

- a. Geoengineering  
b. Impact of agriculture on carbon dioxide emissions  
c. Impact of climate change on wildlife  
d. Alternatives to fossil fuels  
e. Albedo effect

Date:-10/10/2019

Seat Number:-\_\_\_\_\_

Time : 2.30 hrs

Env. Mgmt Sem III

Marks : 75

Subject: NRM

- N. B.: (1) All questions are **compulsory**.  
(2) Numbers to the **right** indicate **marks**.

**Q.1. Answer the following. (Any 2)**

15

- A. What was the Green Revolution? What were the negative impacts of Green Revolution?  
B. What is deforestation? What are the different causes of deforestation?  
C. With the help of examples explain the concept of recycling vs. reusing a product. What is better for the environment?

**Q.2. Answer the following. (Any 2)**

15

- A. "The oceans are one of the Earth's most valuable resource." Elaborate with examples.  
B. "Forests are an important natural resource." Justify the statement.  
C. "Wetlands have intrinsic and ecological value and hence need to be preserved." Explain and justify the statement.

**Q.3. Answer the following. (Any 2)**

15

- A. With the help of examples, explain the different demands on water resources.  
B. "Land use patterns change over the years." Explain with the help of examples.  
C. With the help of an example, explain the adverse impact of large dams on the environment.

**Q.4. Answer the following. (Any 2)**

15

- A. "Land use patterns change over the years." Explain with the help of examples.  
B. "Soil microorganisms aid agriculture." Explain with examples.  
C. Explain the distribution of forests in India.

**Q5. Write Short notes (Any three)**

15

- a. Renewable and non-renewable resources  
b. Land as a resource  
c. Overfishing  
d. Beneficial and harmful effects of Fungi  
e. Over-exploitation of natural resources

Date :-11/10/2019

Time : 2:30 hrs

Seat Number:- \_\_\_\_\_

Marks : 75

**FINANCIAL MANAGEMENT**

**Env . Mgmt SEMESTER - III**

- All questions are compulsory, subject to internal choices
- Use of simple calculator is allowed.

**Q1. (Attempt any 2)**

**(15)**

A) From the following information, ascertain the payback period and discounted payback period. Project cost: Rs.2,40,000

Year	Cash inflow	Discount factor @ 10%
1	60,000	0.909
2	70,000	0.826
3	1,00,000	0.751
4	80,000	0.683
5	60,000	0.621

B) As a part of strategy to increase sales and profit, the sales manager of a company proposes to sell goods to a group of new customers with 10% risk of non-payment. This group would require a credit period of 3 months and is likely to increase to sales by Rs.2,00,000 per annum. All sales are on credit basis. Variable cost amounts to 80% of sales and the income tax is 50%. The minimum rate of return expected by the company is 20% before tax. Will you accept the proposal of the sales manager?

C) Explain factors determining working capital requirements.

**Q2. (Attempt any 2)**

**(15)**

A) From the following information pertaining to Paresh Ltd, prepare statement showing working capital requirement:

Budgeted sales: Rs 1,30,000 per annum

Analysis of sales (Rs per unit):

Raw materials:	4
Direct labor:	3
<u>Overheads:</u>	<u>2</u>
Total cost:	9
<u>Profit:</u>	<u>1</u>
Sales price	10

Additional Information:

- i) Raw materials remain in stock for 4 weeks
- ii) Finished goods remain in stock for 2 weeks
- iii) Factory processing takes 3 weeks
- iv) Suppliers allow 4 weeks credit & customers are allowed credit period of 8 weeks
- v) For calculation purpose consider 4 weeks as one month. 52 weeks in a year.

B) Explain objectives of financial management.

C) Sales: 40,000 units. Selling price: Rs.20 per unit. Variable cost is 50% of sales. Fixed cost is Rs.2,00,000. Interest on loan is Rs.1,00,000. Tax rate is 40%. No of equity shares is 10,000.

Prepare income statement.

Find operating leverage, Financial leverage, EPS.

**Q3. (Attempt any 2)**

(15)

A) Calculate WACC

Equity capital	Rs. 80,00,000
10% Preference capital	Rs. 20,00,000
Retained earnings	Rs. 40,00,000
14% Debentures	Rs. 60,00,000

Tax rate is 40%.

The market price of share is Rs.15 and the company expects to declare dividend of Rs 3 per share at the year end, with a growth rate of 7% forever.

Cost of retained earnings in 9%.

B) Prepare Cash budget for the quarter beginning from 1<sup>st</sup> July from the following information:

Month	Sales	Purchases	Wages	Overheads	Other expenses
June	1,30,000	62,000	22,000	7,000	5,000
July	1,40,000	67,000	25,000	9,000	7,000
August	1,25,000	60,000	26,000	7,000	6,000
September	1,30,000	65,000	27,000	8,000	6,000

i) 30% sales are for cash & the balance are on one month credit

ii) The purchases are on one month credit

iii) All other expenses are paid in the same month

iv) Advance income tax of Rs.60,000 is to be paid in August, out of which Rs.30,000 were paid immediately and the remaining in the next month

v) Cash in hand on 1<sup>st</sup> July was Rs.50,000

C) Explain difference between operating leverage and financial leverage.

**Q4. (Attempt any 2)**

(15)

A) Omega Ltd is intending to acquire Alpha Ltd by merger and the following information is available:

Particulars	Omega Ltd	Alpha Ltd
No of equity shares	10,00,000	6,00,000
EAT (Rs)	50,00,000	18,00,000
Market value per share (Rs)	42	28

i) What is the present EPS of both the companies?

ii) What is the present price earnings ratio of both the companies?

iii) If the proposed merger takes place, what would be the new EPS of Omega Ltd, assuming that the merger takes place by exchange of equity shares and the exchange ratio is based on current market price.

**B) Prepare income statement**

Combined leverage : 15 times

Operating leverage: 5 times

variable cost: 50% of sales. Tax rate: 35%

Number of equity shares: 1,00,000

EPS: Rs.0.65

**C) Explain features and merits of preference capital.**

**Q5 (Attempt 5 A or 5 B)**

A) A machine requires investment of Rs.5,00,000. You are given cash flow after taxes for the 6 useful years:

Year	CFAT	Discount factor @ 10 %	Discount factor @ 12%
1	1,40,000	0.909	0.893
2	1,50,000	0.826	0.797
3	1,70,000	0.751	0.712
4	1,90,000	0.683	0.636
5	1,60,000	0.621	0.568
6	1,50,000	0.564	0.507

Calculate Discounted payback period, net present value and profitability index using both 10% and 12 % discount factors. Is it advisable to invest in the machine under both situations (discount factors)?

(15)

OR

**Q5 B. Write a short note on any 3:**

(15)

- Features of debenture as a source of capital
- Cash credit
- Qualities of a finance manager
- Commercial paper
- Explain concept of payback period and discounted payback period.

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