

Question Paper  
F.Y. Entomology  
2018  
Sem-II

**UNIVERSITY PAPER**

**F.Y.B.M.S.**

**[ENVIRONMENTAL ECO.]**

**SEM-II**

**APRIL -2018**

13/04/18

Q.P. Code :07881

[Time: 2 1/2 Hours]

[ Marks:75]

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory.
  2. Figures to the right indicate full marks.
  3. Draw suitable diagram wherever necessary.

- Q.1 Answer in brief (Any 2) 15
- a) Explain the term biomes.
  - b) What are Conservation Ethics?
  - c) Pollution means Contamination. Elucidate.
- Q.2 Answer in brief (Any 2) 15
- a) Explain troposphere and stratosphere of atmosphere in detail.
  - b) What is an air mass? What are its types and characteristics?
  - c) How can acid rain prove to be harmful?
- Q.3 Answer in brief (Any 2) 15
- a) State the various features of black soil.
  - b) What is the difference between erosion & weathering?
  - c) Describe the zonal structure of the earth with a suitable diagram.
- Q.4 Answer in brief (Any 2) 15
- a) What is biodiversity? Discuss its various types in detail.
  - b) Is use of Biotechnology a boon or a curse? Express your views with suitable examples.
  - c) How have estuaries proved to be useful in the development of tourism?
- Q.5 Read the case study and answer the following questions. 15

The establishment of the penal settlement and then independent India's resettlement and rehabilitation policy for the islands saw a huge influx of people. Thousands were brought here from mainland with the promises of land and resources. Vast tract of forests continue to be cleared to accommodate all these people. It was then also realized that a source of employment; a source of income generation needs to be created to help these people survive here. The obvious industry thought of and promoted from the 60's has been the timber & plywood industry. Thus, a situation was created wherein there was no option but to open up the forests for exploitation. Huge incentives & Subsidies were offered to entrepreneurs who were willing to take the risk of establishing industry here.

- a) What do we understand by migration? State the various factors responsible towards the causes of migration.
- b) What led to the exploitation of forests?
- c) State the various causes of deforestation.

Please check whether you have got the right question paper.

- N.B: 1. All the questions are compulsory.  
2. Figures to right indicates full marks.

**Q.1 Attempt any two questions**

15

- Define HRM and explain the different roles of a HR manager.
- Explain the process of human resource planning.
- Write a note on promotion.

**Q.2 Attempt any two questions**

15

- What are the factors affecting job designing?
- Explain the different types of interviews conducted in an organization.
- Briefly explain the advantages of training and development.

**Q.3 Attempt any two questions**

15

- State and explain the traditional methods of appraisal.
- What are the advantages and disadvantages of incentives?
- 'Every individual goes through different career stages in their life'. Discuss.

**Q.4 Attempt any two questions**

15

- What are the different forms of participation?
- Why is it important to maintain good industrial relations?
- What is meant by trade union and state its features?

Q.5 Case study

15

'Raka' is a reputed Marketing Research organization having about 150 operative employees and 70 executives all over the country. The operative staff is mostly involved in data collection, while the executives at different levels usually do the research design, analysis and presentation. The company has a performance rating system, which has been in existence for about 10 years and was designed by the head of administration, a clerk who had been promoted into that position over the years without any formal training. All employees are rated by their immediate superiors, by means of a rating scale. Then, the form is evaluated by a superior at the next level, where the employee is informed of his performance rating. The employee then signs a form indicating that he/she has been so informed. The employee's signature does not necessary mean that he/she agrees with the rating.

The parameters considered are

- Quality of Work,
- Quantity of Work,
- Reliability, Cooperativeness
- Community Service.

The employee is rated on a 5 point rating scale. Ratings of each year are maintained in the employee's file in the HR Development. Ratings are supposed to be used as a basis for promotions and increments. In practice however, little use is made of the ratings for anything. A small informal survey conducted a year ago showed that the superior spent on an average 3 minutes filling up a form and less than 10 minutes discussing it with the subordinate. Employee feelings about the system range from indifferent to hostility. Most that community service is not a part of their job and should not influence their rating, while important criteria like leadership potential which indeed should be a part of the form are left out.

The system seems to be causing much dissatisfaction and hostility among the employees of the firm. The MD, Mr. Gandhi feels that it is becoming a dangerous source of friction and should be done away with all together.

- a) Explain the main problems of the existing performance appraisal system. 03
- b) Do you agree with the MD that the system of performance appraisal should be discontinued altogether altogether in this organization? Justify your view. 05
- c) Suggest some additional modern techniques of appraisal that can be used by the company. 07

[Time: 2½ Hours]

[Marks:75]

Q1A) From the following information prepare a detailed cost statement for the year ended 31.03.2014. (15)

Particulars	Rs
Opening Stock of Raw Materials	20,000
Opening Stock of Finished Goods	30,000
Purchases of Raw Material	15,00,000
Direct Wages	12,00,000
Power	99,500
Carriage on Purchase of Raw Material	20,000
Direct Expense	50,000
Custom duty and Octroi on Purchase of raw material	60,000
Rent and rates of office	50,000
Rent and rates of factory	70,000
Telephone Expenses	30,000
Advertisement	75,000
Office Electricity	15,000
Factory Electricity	30,000
Machinery lost in fire	1,00,000
Depreciation on Plant and Machinery	80,000
Depreciation on Delivery Van	20,000
Income Tax	1,20,000
Salaries	2,50,000
Donations	70,000
Establishment Expenses	1,00,000
Rent of Showroom	65,000
Interest on Loan	45,000
Sale of Factory Scrap	7,500
Dividend Received	17,500
Directors fees	60,000
Mailing of Sales Literature	10,000
Closing Stock of Raw Material	1,85,000
Closing Stock of Finished Goods	30,000

Other Information:

- 60% of telephone expenses relate to the Office and 40% to the sales department.
- Salaries to be allocated to the Factory, Office and Sales department in ratio of 1:2:1.
- Establishment expenses are to be apportioned equally between the Office and Sales Department.
- Sales are made to earn a profit of 20% on the selling price

OR

- Q1P)** The following details are furnished by NY Limited. Expenses incurred during the year ended 31.03. 2014 were as follows : (15)

Particulars	Rs
Salesman salary	6,47,500
Opening stock of Finished Goods ( 2000 units)	7,60,000
Directors Fees	9,73,700
Indirect Wages	9,76,300
Repairs to Office Furniture	4,01,700
Works Manager Salary	11,94,700
Showroom Expenses	10,68,750
Depreciation on computer	12,12,900
Indirect Materials	7,31,900
Depreciation on Plant and Machinery	4,77,100
Advertisements	15,33,750
Office Salary	7,91,700
Direct Wages	10,01,000
Direct Materials	18,82,400
Direct Expenses	4,96,600
Closing Stock of Finished Goods (3000 units)	?

Other Information :

1. Closing stock of finished goods to be valued at cost of production
2. Profit desired on sales is 20%
3. Number of units sold 25,000

- Q2A)** Explain the importance for reconciliation of costing and financial profits. (08)

- Q2 B)** From the following particulars prepare a statement showing profit as per cost accounts (07)

and reconcile the same with the profit as per financial accounts. The Net Profit as per financial Profit and Loss Account is Rs 50,000. Opening stock was overvalued by Rs 2,000 in Cost accounts as compared to financial accounts. Administrative overheads charged in financial Books Rs 20,000 but recovered in the costing Books was Rs 40,000.

- Income tax provision Rs 1,200
- Notional Salary of Proprietor in Cost Rs 20,000
- Interest Received Rs 12,000
- Closing stock as per financial books Rs 16,200 whereas in costing books was Rs 19,000.

OR

Q2P) The Financial Profit and Loss of M/S Beta for the year ended 31.12.2013 is as follows : (15)

To Materials Consumed	50,000	By sales	1,24,000
To Direct Wages	35,000	By share transfer fees received	100
To Works Expenses	12,000		
To Administration Expense	4,500		
To Sales and Distribution Expense	6,600		
To interest on loan	1,000		
To Net Profit	15,000		
	<b>1,24,100</b>		<b>1,24,100</b>

The Net Profit as shown by Cost Account for the year is Rs 15,760. The following additional information is supplied to you.

- In cost accounts the following estimate overheads were charged
  - Works Expenses- Rs 11,500
  - Administration Expenses - Rs 4,590
  - Sales and Distribution Expense Rs 6,650.
- In cost accounts the rent of the owned office building used in business was charged by Rs 500.

Prepare 1. Cost Sheet 2. Statement of Reconciliation

Q3A) Pratisksha Ltd has prepared the following budget for year 2016-2017 (15)

Sales 15000 units  
Selling Price Rs 10 per unit  
Fixed Expense Rs 34,000  
Variable cost Rs 6 per unit

Calculate 1. P/v ratio 2. Break Even Point 3. Margin of safety

Also calculate the above

- Decrease in selling Price by 10%
- Increase in variable cost by 10%

OR

Q3P) Explain the concept of Break Even Analysis in detail (08)

Q3Q) From the following data compute, (07)

- Break even point in rupees
- Number of units to be sold to earn a profit of Rs 6,00,000.

Selling Price Rs 20 per unit,  
Variable Manufacturing Cost Rs 11 per unit  
Variable Selling Cost Rs 3 per unit  
Fixed factory overhead Rs 5,40,000 p.a  
Fixed Selling costs Rs 2,52,000 pa.

Q4A) Explain the different elements of cost. (08)

Q4B) "Financial accounting and cost accounting mean one and the same". Do you agree? (07)  
Justify.

OR

Q4 P) From the following prepare stores ledger under FIFO Method (15)  
The stock of material as on 1.1.2016 was 500 units @ Rs 1 per unit. The following purchases and issues were made subsequently.

Receipts		
	Jan 1	100 units @ Rs1.10 per unit
	Jan 20	Purchased 700 units @ Rs1.20 per unit
	Jan 27	Purchased 400 units @ Rs1.30 per unit
	Feb 13	Purchased 1000 units @ Rs1.40per unit
	Feb 20	Purchased 500 units @ 1.50 per unit
	March 17	Purchased 400 units @ 1.60 per unit
Issues		
	January 9	Issued 500 units
	January 22	Issued 500 units
	January 30	Issued 500 units
	February 15	Issued 500 units
	February 22	Issued 500 units
	March 11	Issued 500 units

Q5) Write short Notes on (any 3) (15)

1. Limitations of Marginal Costing
2. Uses of cost sheet
3. Functional classification of cost
4. Profit volume ratio
5. Objectives of cost accounting

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Env Mgt  
18-04-18

# Economics

Q.P. Code: 33928

[Time: 2½ Hours]

[Marks:75]

Please check whether you have got the right question paper.

- N.B: 1. All question are compulsory  
2. Figure to the right indicates full marks.  
3. Draw neat diagram where *ever* necessary

- Q.1** Attempt **any Two** out of Three 15  
a) Explain the circular flow of income and expenditure of four sector economy.  
b) Examine the Keynesian approach to demand for money.  
c) Explain the derivation of "LM curve".
- Q.2** Attempt **any Two** out of Three 15  
a) Discuss the types of Economic system.  
b) Examine the instrument of Monetary Policy  
c) Discuss the argument for free trade.
- Q.3** Attempt **any Two** out of Three 15  
a) Distinguish between Domestic trade Vis International Trade.  
b) Examine the Indian Balance of Payment Since 1991.  
c) Discuss the argument and against flexible exchange rate.
- Q.4** Attempt **any Two** out of Three 15  
a) Examine the gains of globalization.  
b) Distinguish between FDI Vis FII.  
c) Explain the role of MNC.
- Q.5** Write a short notes (**any three**) 15  
a) Business cycle  
b) National income  
c) Role of World Bank  
d) Causes of Disequilibrium  
e) Role of IMF

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19/04/18

FY. Env. Mgmt

Prodc Mgmt & Material mgmt

Q.P.Code: 32451

[Time: 2½ Hours]

[ Marks: 75]

NOTE: All questions are compulsory subject to internal choice.

**Q. 1. Answer any two of the following**

**(15 Marks)**

- a. Why production functions are essential for a manufacturing concern?
- b. State the characteristics of Product Design.
- c. Discuss the decline stage of product life cycle and suggest some effective measures to overcome such problems.

**Q. 2. Answer any two of the following**

**(15 Marks)**

- a. Explain the types of Continuous System of production.
- b. Discuss advantages and disadvantages of Process Layout.
- c. Explain the types of Plant Maintenance.

**Q. 3. Answer any two of the following**

**(15 Marks)**

- a. Explain the role of Material Manager.
- b. State the merits and demerits of centralized material department.
- c. Discuss forecasting methods used in an organization.

**Q. 4. Answer any two of the following**

**(15 Marks)**

- a. What is quality control? State its objectives.
- b. Discuss the different types of waste management techniques.
- c. Explain the functions of stores.

**Q.5. Write short notes (any three)**

**(15 Marks)**

- a) Batch production
  - b) EOQ
  - c) VED Analysis
  - d) Types of inventory
  - e) Production Planning and Control
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1 Env Mgt  
Sem II

Business Stats

20-04-18

Q. P. Code: 32727

TIME: 2.5 HRS

MARKS: 75

1. Please check whether you have got the correct question paper.
2. Figures to the right indicate marks.
3. Include diagram wherever necessary.

**Q1. ANSWER ANY 2**

**15 MARKS**

1. Discuss the meaning and scope of statistics and explain the utility of statistics in industrial and commercial concerns.
2. From the following data obtain the two regression equations and find out value of coefficient of correlation ( $r$ ):

X	Y
3	9
4	11
6	14
7	15
10	16

3. The daily wages of 50 employees in an organization are given below:

Daily wages (in \$)	100 - 150	150 - 200	200 - 250	250 - 300
Number of Workers	12	13	17	8

Find the mean of above data.

**Q2. ANSWER ANY 2**

**15 MARKS**

1. The runs scored in a cricket match by 11 players is as follows:  
7, 16, 121, 51, 101, 81, 1, 16, 9, 11, 16

Find the mean, mode, median of this data.

2. Two sample of cholesterol measurements of a given patient using two different methods :

Method 1	Method 2
177	192
193	197
195	200
209	202
226	209

Calculate mean and range of two measurements.

3. A bag has 8 black pens and 2 red pens and if a pen is drawn at random, what is the probability that it is a black or red pen. Explain using addition theorem of probability.

**Q3. ANSWER ANY 2**

**15 MARKS**

1. Find Median of Group X and Group Y given below:

X- 5,7,9,12,10,8,7,15,21

Y - 25,28,25,0,29,24,23,25,28,25

2. Explain the definition and applications of Statistics

Q. P. Code: 32727

3. Draw a frequency polygon for given data

Age in years	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of students	100	300	600	750	1200	600	200

Q4. ANSWER ANY 2

15 MARKS

1. Explain arithmetic mean and geometric mean. Also explain their merits and limitations.
2. In hypothesis, what are type I and type II errors. Explain with examples
3. Find range and co-efficient of range for following data: 27,0,35,36,38,40,43

Q5. SHORT NOTES (ANSWER ANY 3)

15 MARKS

1. Histogram
2. Frequency polygon
3. Frequency curve
4. Find the mean of first 5 prime numbers.
5. Find the mean of first ten whole numbers.

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