

Total No. of Printed Pages:3

S.E. (Electrical & Electronics) (Sem-III) (Revised Course 2016-2017)
EXAMINATION MAY/JUNE 2019
Economics and Management

[Duration : Three Hours]

[Total Marks : 100]

Instructions:

Please check whether you have got the right question paper.

1. Attempt any **five** questions in all.
2. It is compulsory to answer two questions each from **part – A** and **part – B**
3. Answer **any one** questions from **part – C**
4. Figures to the **right** indicate marks.

PART-A

Q.1 Answer any two questions from the following. 2×20=40

- a) What are the main features Law of Supply? Explain shift in the supply curve. 06
- b) The market consists of two buyers and two sellers whose equations are given below. 06
Demand equations: $Qd_A = 140 - 5P$, $Qd_B = 40 - 0.5P$,
Supply equations; $Qs_A = 40 + 3.5P$, $Qs_B = 80 + 7P$
i) Find Equilibrium Price & Equilibrium Quantity.
ii) Why Equilibrium price is called as unique price?
- c) What is Consumer Price Index? Explain the various steps involved in calculating Consumer Price Index. 08

Q.2 a) Find Net Present Value and appraise the profitability of the project. Assume Discount rate 10%. 08

PROJECT	Cost of investment	Life of Project	Cash Inflows			
			1 st year	2 nd year	3 rd year	4 th year
A	Rs.1,00,000/-	4 years	Rs.40,000/-	Rs.65,000/-	Rs.45,000/-	Rs.55,000/-

- b) Explain the various factors that affect working capital requirements in a firm 04
- c) Write short note on (4+4)
 - i) Naïve model
 - ii) Income elasticity

- Q.3 a) The fixed costs for the years 2017-18 are Rs.8,00,000 variable cost per unit is Rs.30. the sales for the period are valued at Rs.24,00,000 each unit sells at Rs.180. 07 07
- i) Calculate Break Even Point (In terms of unit & revenue)
- ii) What is the change in B.E.P if fixed costs increase from Rs.8,00,000 to Rs.9,00,000.
- iii) If a profit of Rs.9,50,000 has been budgeted, compute the turn-over required.
- b) Suppose that the demand for X in terms of the price of Y is given below by 03 03
 $Q_x = 100 + 0.5P_y$
 If Price of Y increases from 50 to 150 Calculate the Cross elasticity of demand
- c) Write short note on 5+5 5+5
- i) Marginal revenue
- ii) Safety Margin

PART- B

Answer any two questions from the following.

2×20=40

- Q.4 a) Elaborate on the distinctive contribution of Taylor to the theory of management. 05 05
- b) The degree of decentralization often varies from department to department in the same organization. Why does this happens? 05 05
- c) Elaborate on Vrooms Expectancy Theory of motivation. 05 05
- d) Explain the various types of leadership styles. 05 05
- Q.5 a) Why is that span of control at the chief executive level is usually narrower than that at operative level? 05 05
- b) Differentiate between Single use and standing plans. 05 05
- c) Write short note on 5+5 5+5
- i) Behavioral Theory of Leadership
- ii) Communications Process
- Q.6 a) What are the two main types of control? Explain the basic steps involved in the control process. 08 08
- b) Differentiate between line , staff and functional authority. 06 06
- c) State the essentials of an effective delegation of authority. Explain its difficulties. 06 06

PART – C

Answer any one questions from the following.

1×20=20

- Q.7 a) Predict the sales for the month of June 2018 using linear regression method of demand forecasting. **05**

Month	Jan 2018	Feb 2018	March 2018	April 2018	May 2018
Sales in units	55	42	60	55	60

- b) With the help of diagrams explain the effect of variation in Variable costs on B.E.P **05**
- c) Write short note on **5+5**
- Management by objectives
 - Time Value of Money

- Q.8 a) Using exponential smoothing method forecast the demand for the month of May 2018 Using starting forecast as 26 and $\alpha = 0.2$ **05**

Month	Jan 18	Feb 2018	March 18	April 18
Sales in units	24	35	29	44

- b) Distinguish between Organization as a “structure “ and as a “process”. **05**
- c) Write short note on **5+5**
- Profit Volume Ratio
 - Disposable income