

B.E ELECTRICAL ENGINEERING Examination 2025**[4th Year; 2nd Semester]****Subject: ECONOMICS AND INDUSTRIAL MANAGEMENT****Part-I**

Time: 3 hours

Use Separate Answer script for each part

Full Marks: 100

(50 marks for each Part)

[Answer any five questions from the following]

Q.1.	A. What do you understand by price elasticity of demand? B. Explain how demand for different types of goods (normal, inferior, luxury) respond to change in their price with the help of graphical representation.	3+7= 10 [CO1]
Q.2.	A. State the Law of Demand. B. Briefly state the factors that effect change in demand of a product/service C. Briefly explain the shifts in supply curve	2+5+3= 10 [CO2 & CO5]
Q.3	A. State the features of a monopoly competitive market?. B. Can a monopolist earn loss in Long-run? If not state the situation that a generic monopolist will face with regards to revenue earning in Long-run. .	4+2+4= 10 [CO2]
Q.4.	Write short notes on the following: a. Shifts in supply curve b. Demand-pull inflation	5+5=10 [CO4]
Q.5.	A. State the features of an oligopoly market. B. How does the demand curve look like in perfectly competitive market? C. Firm is a price-maker or price taker in perfect-competition?	4+4+2=10 [CO5]
Q6	A. Define money in your own words. What are its basic functions? B. State the different types of inflation with examples.	2+3+4+=10
Q7	A. What are the different causes and effects of inflation globally? B. Explain the relation between money supply and inflation with the help of a real time example?	5+5=10
Q8	A. What do you understand by the term Bank? B. State the functions of a commercial Bank. C. What are the different types of bank that function in Indian Banking System?	2+5+3=10

[Turn over

B.E. Electrical Engineering Examination 2025
[4th Year; 2nd Semester]
Subject: Economics & Industrial Management

Part-II

Time: 3 hours

Use Separate Answer script for each part

Full Marks:100
(50 marks for each Part)

[Answer any 5 (five) questions]

Q.1.	Times of performing a job element are recorded and some readings taken (in hours) are as under. <table><tr><td>0.06</td><td>0.07</td><td>0.06</td><td>0.05</td><td>0.06</td><td>0.05</td><td>0.07</td><td>0.06</td><td>0.07</td><td>0.05</td><td>0.06</td></tr></table> Find the actual number of readings required for conducting the time study of the job element.	0.06	0.07	0.06	0.05	0.06	0.05	0.07	0.06	0.07	0.05	0.06	10 [C04]										
0.06	0.07	0.06	0.05	0.06	0.05	0.07	0.06	0.07	0.05	0.06													
Q.2.	Explain the contributions of F.W. Taylor in scientific management	10 [C02]																					
Q.3	A Pune based toy manufacturer consumes an item priced at Rs.5/- each, at the rate of 2,500 units per month. An inventory of one month's consumption is always kept as Safety Stock. The lead time for procurement is 1½ months. The cost of ordering is Rs. 300/- per order and the Inventory Carrying cost is 12% per annum. Find: A. Economic Order Quantity B. Reorder Level C. Maximum Level D. Average Inventory	4 + 2 + 2 + 2 = 10 [C04]																					
Q.4.	Illustrate the features of Co-operative Society, including Producers' Cooperative and Consumers' Cooperative with industry examples.	10 [C02]																					
Q.5.	A. Draw the Project Network of the following activities and identify the Critical Path. <table><tr><td>Activity</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td></tr><tr><td>Predecessor</td><td>-</td><td>A</td><td>A</td><td>B</td><td>C</td><td>D, E</td></tr><tr><td>Duration (Weeks)</td><td>4</td><td>6</td><td>9</td><td>12</td><td>3</td><td>8</td></tr></table> B. Interpret the Earliest Start Time and Earliest Finishing Time of each activity.	Activity	A	B	C	D	E	F	Predecessor	-	A	A	B	C	D, E	Duration (Weeks)	4	6	9	12	3	8	5 + 5 = 10 [C03]
Activity	A	B	C	D	E	F																	
Predecessor	-	A	A	B	C	D, E																	
Duration (Weeks)	4	6	9	12	3	8																	
Q.6.	A company wishes to procure a new moulding machine and collects the maintenance data from five manufacturers as under. <table><tr><td>Machine Brand</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td></tr><tr><td>MTTF (Hrs)</td><td>140</td><td>164</td><td>146</td><td>166</td><td>149</td></tr><tr><td>MTTR (Hrs:Mins)</td><td>9 Hrs 45 Mins</td><td>10 Hrs 15 Mins</td><td>9 hrs 10 Mins</td><td>12 Hrs 40 Mins</td><td>11 Hrs 30 Mins</td></tr></table> Suggest which machine the company should buy considering the highest system availability.	Machine Brand	A	B	C	D	E	MTTF (Hrs)	140	164	146	166	149	MTTR (Hrs:Mins)	9 Hrs 45 Mins	10 Hrs 15 Mins	9 hrs 10 Mins	12 Hrs 40 Mins	11 Hrs 30 Mins	10 [C04]			
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Q.7.	A. Differentiate between Breakdown Maintenance and Preventive Maintenance, B. Describe various types of Preventive Maintenance	4 + 6 = 10 [C02]																					