

	<p style="text-align: center;">ADAMAS UNIVERSITY END (EVEN) SEMESTER EXAMINATION: MAY 2021 (Academic Session: 2020 – 21)</p>		
Name of the Program:	B. Tech	Semester:	VI
Paper Title:	Industrial Engineering	Paper Code:	EME43106
Maximum Marks:	40	Time duration:	03 HRS.
Total No of questions:	08	Total No of Pages:	02

Answer all the Groups

Group A

(Answer all the questions)

1×5=5

1.
 - a. Define Industrial engineering.
 - b. What is critical activity?
 - c. What do you mean by quality?
 - d. What are the objectives of time study?
 - e. What is the basic function facility planning?

Group B

(Answer any three questions)

5×3=15

2. Explain Product life cycle with typical curve and its stages.
3. (a) What is the objective of facility layout?
 (b) An item can be purchased for Rs 200. The ordering cost is Rs. 300 and the inventory carrying cost is 10% of the item cost annum. If the annual demand is 3000 units, then calculate the economic order quantity (in units).
4. (a) What is value engineering? Discuss briefly.
 (b) Standard time and labour rates are as in the table. Labour overheads are 20% of labour cost.

Activity	Standard Time(minutes)	Labour rate (Rs. /hr.)
Cutting	2	500
Drilling	1	300
Inspection	3	700
Packaging	0.5	200

If the material cost is Rs. 50/unit, what will be the total cost of production in Rs. /unit?

5. (a) Differentiate CPM and PERT.
 (b) Differentiate Cyclograph & Chronocyclo-graph.

Group C

(Answer any two questions)

10×2=20

6. How will you select job for method study? Explain steps involved in conducting method study?
7. Explain various kinds of inventory control systems?
8. Explain the following in the context of a network:
(i)Activities (ii) Event (iii) Path (iv) Dummy Activity (v) float