

ANURAG Engineering College

(An Autonomous Institution)

IV B.Tech I Semester Supplementary Examinations, April – 2024

PLANT LAYOUT & MATERIAL HANDLING**(MECHANICAL ENGINEERING)****Time: 3 Hours****Max.Marks:75****Section – A (Short Answer type questions)****(25 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. List out classifications of layouts	CO1	L1	2M
2. Summarize the good characteristics plant layout.	CO1	L2	3M
3. Write the specifications of any process layout	CO2	L1	2M
4. What are the factors are to be considered for product layout?	CO2	L2	3M
5. Classify the computerized layout planning	CO3	L1	2M
6. What are the benefits of ALDEP?	CO3	L2	3M
7. State the various cost factors involved in material handling	CO4	L1	2M
8. Classify the material handling equipment's.	CO4	L2	3M
9. How do you minimize the material equipment cost?	CO5	L1	2M
10. What are the safety precautions to be taken in the material handling system	CO5	L2	3M

Section B (Essay Questions)**Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) Explain the principles of plant layout.	CO1	L3	10M
OR			
B) Explain the layout design procedures in detail	CO1	L3	10M
12. A) What is process layout? Explain its salient features and state its advantages and disadvantages	CO2	L3	10M
OR			
B) Explain in brief the group layout and its features. Also state its advantages and disadvantages	CO2	L3	10M
13. A) Explain in brief the ALDEP and its features	CO3	L3	10M
OR			
B) What is CORELAP? Illustrate the procedural steps of CORELAP for layout design	CO3	L3	10M
14. A) Explain the relationship of material handling to plant layout	CO4	L3	10M
OR			
B) State and explain factors to be considered for the selection of material handling equipment	CO4	L3	10M
15. A) Explain safety and energy conservation in material handling equipment	CO5	L3	10M
OR			
B) Explain the need of training in material handling equipment maintenance management	CO5	L3	10M