



(Pages : 3)

A – 2278

Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, April 2016
(2008 Scheme)**

Elective – 08.805.3 : FACILITIES PLANNING (MPU)

Time : 3 Hours

Max. Marks : 100

- Instructions :** 1) Answer *all* questions in Part – A.
2) **Each** question in Part – A carries 4 marks.
3) Answer **any one** full question from **each** Module in Part – B.
4) **Each full** question in Part – B carries 20 marks.

PART – A

1. What are the objectives of plant layout ?
2. Illustrate line balancing with an example.
3. Briefly explain CRAFT.
4. Write short note on humidity control in industrial buildings.
5. Discuss compressed air service in a plant.
6. How industrial accidents are classified ?
7. Differentiate repair and replacement.
8. Discuss the importance of material handling equipments.
9. Briefly explain present worth method of Replacement study.
10. Briefly explain DCF Techniques.

P.T.O.



PART – B
Module – 1

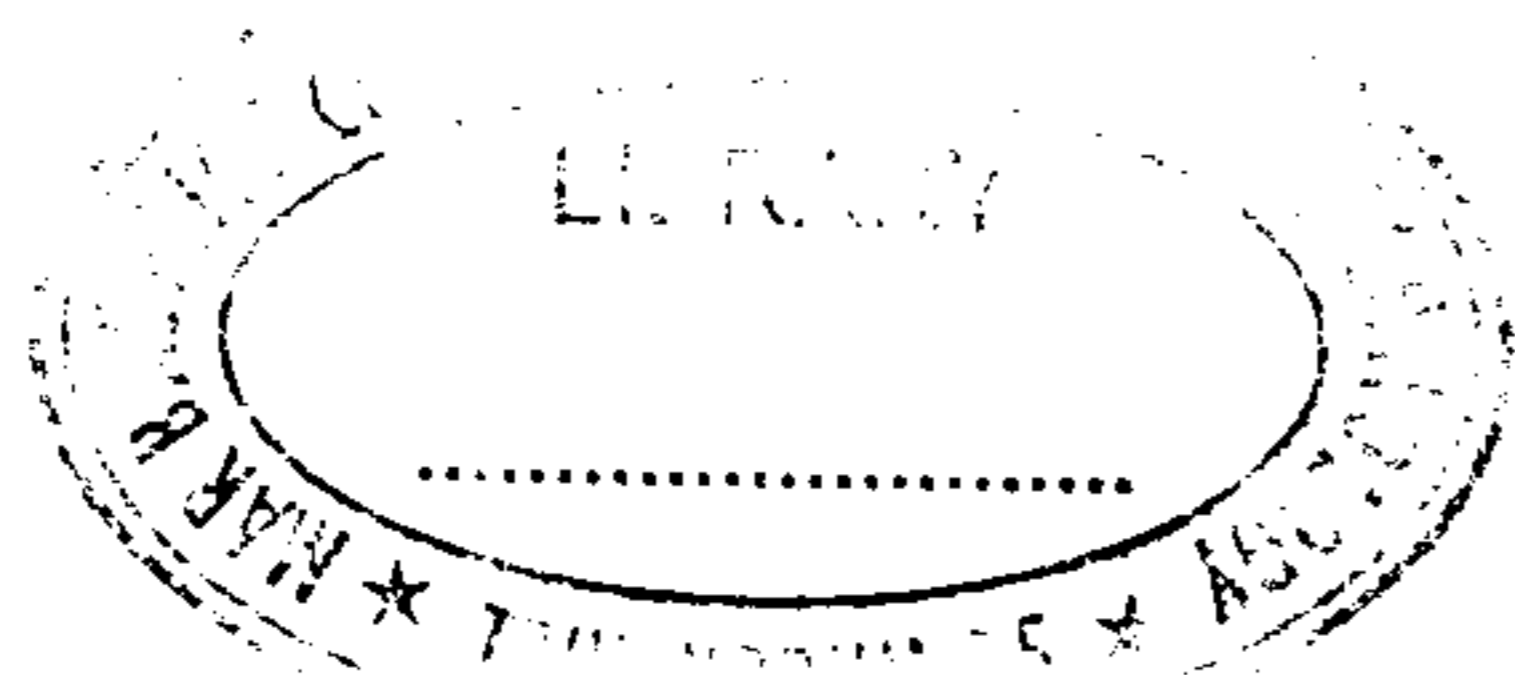
11. a) Explain the advantages of good plant lay out. 10
- b) Considering the data given in the table below, develop the most appropriate lay out.

Department	Area	Product	Flow Diagram
A	300	I	S → A → B → D → C → F → E → WH
B	400	II	S → B → D → F → E → F → WH
C	2000	III	S → A → C → D → E → WH
D	1200	IV	S → A → B → C → D → E → WH
E	700	V	S → A → C → B → D → B → F → E → WH
F	600		
S	1000		
W, H	300		

- 10
12. a) Explain the methods for storing materials. 10
- b) Write short notes on :
- i) ALDEP
- ii) CORELAP 10

Module – 2

13. a) Explain different types of roofing commonly used in industry by considering the lighting. 10
- b) Explain the important provisions for safety in the Indian factories Act. 10
14. a) Explain accident investigation, reporting and analysis in an industry. 10
- b) Explain the effects of noise pollution in industries. 10





Module – 3

- 15. a) Explain the different types of conveyors used in material handling. 10
- b) Explain the factors to be considered while selecting the location for stores and ware houses. 10
- 16. a) The cost per year maintaining a machine are as given below. The purchase price of the machine is Rs. 6,000/-

Year	1	2	3	4	5	6	7	8
Maintenance cost (Rs.)	1000	1200	1400	1800	2300	2800	3400	4000
Resale value (Rs.)	3000	1500	750	375	200	200	200	200

- When should the machine be replaced ? 10
 - b) Explain any two methods for equipment replacement. 10
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