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Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, November 2015
(2008 Scheme)
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** question in Part – B carries 20 marks.

PART – A

1. What are the objectives of plant layout ?
2. What is travel chart ?
3. What is meant by assembly line ? Explain ?
4. Explain one dust control system used in Industries.
5. Explain how safety education and training will help in industrial safety.
6. Give a classification of material handling systems.
7. What do you mean by AGV ?
8. Explain the present worth method in machine replacement analysis.
9. What is ALDEP ? Explain.
10. What are the principles of material handling ? Explain.



PART – B

Module – I

11. a) Explain the procedure of systematic layout planning. 14
- b) What is Group Technology Layout ? Explain. 6

P.T.O.



12. a) Distinguish between product layout and process layout. 8

b) Sequence of operations of six items produced by a firm in five different shops A, B, C, D and E is given below along with number of units of each item produced.

Item no.	Sequence of operations	Number of units
1	ABCDE	250
2	ADBCE	100
3	DABCE	80
4	ACEBD	140
5	ABC	220

Prepare different layouts and suggest the best layout. 12

Module – II

13. a) Enumerate common causes of industrial accidents. Describe various measures to prevent them. 12

b) Describe various methods for the control of Air Pollution. 8

14. a) Explain salient features of good lighting. What role it plays on productivity. 12

b) Discuss the steps for effective control of plant services. 8

Module – III

15. a) Explain the influence of material handling in increasing productivity of plant. 10

b) Describe with neat sketches the working of two material handling equipments. 10

16. a) What are the factors to be considered for replacing equipments. 5

b) Machine A costs Rs. 8,000 while machine B costs Rs. 10,000. Operating cost of A is Rs. 2,000 for the first year and likely to increase by Rs. 1,000 after every year. Operating cost of B is Rs. 1,000 for the first year and likely to increase by Rs. 750 after every year. Resale value of the machines are zero and 8% interest is assumed. Which machine should be purchased. 15