

(Pages : 3)

K – 4367

Reg. No. : .....

Name : .....

**Sixth Semester B.Tech. Degree Examination, September 2020**

**(2008 Scheme)**

**08.604 INDUSTRIAL ENGINEERING AND MANAGEMENT (E)**

Time : 3 Hours

Max. Marks : 100

Instructions : Answer **all** questions from Part A and any **one** question from modules I, II, III of Part B.

PART – A

1. What all are included in the costs of production?
2. Write short note on Industrial engineering in service sector.
3. Discuss working capital cycle.
4. What are the concepts and techniques of Training and Induction?
5. Which are the two broad areas of Work study? Briefly explain each.
6. Discuss on the types of Allowances.
7. Comment on Computerised Relationship Layout Planning (CORELAP). What are its input requirements?
8. What is fatigue? Give a few methods of eliminating it.

P.T.O.



9. What are the three Time estimates in PERT? What is meant by Crashing of project network?
10. Discuss Benchmarking and Documentation.

(10 × 4 = 40 Marks)

PART – B

Module – I

11. (a) Discuss the activities and techniques of Industrial engineering. (10)
- (b) Distinguish between Recruitment and Selection. Discuss various methods of recruitment and selection adopted by organizations. (10)

OR

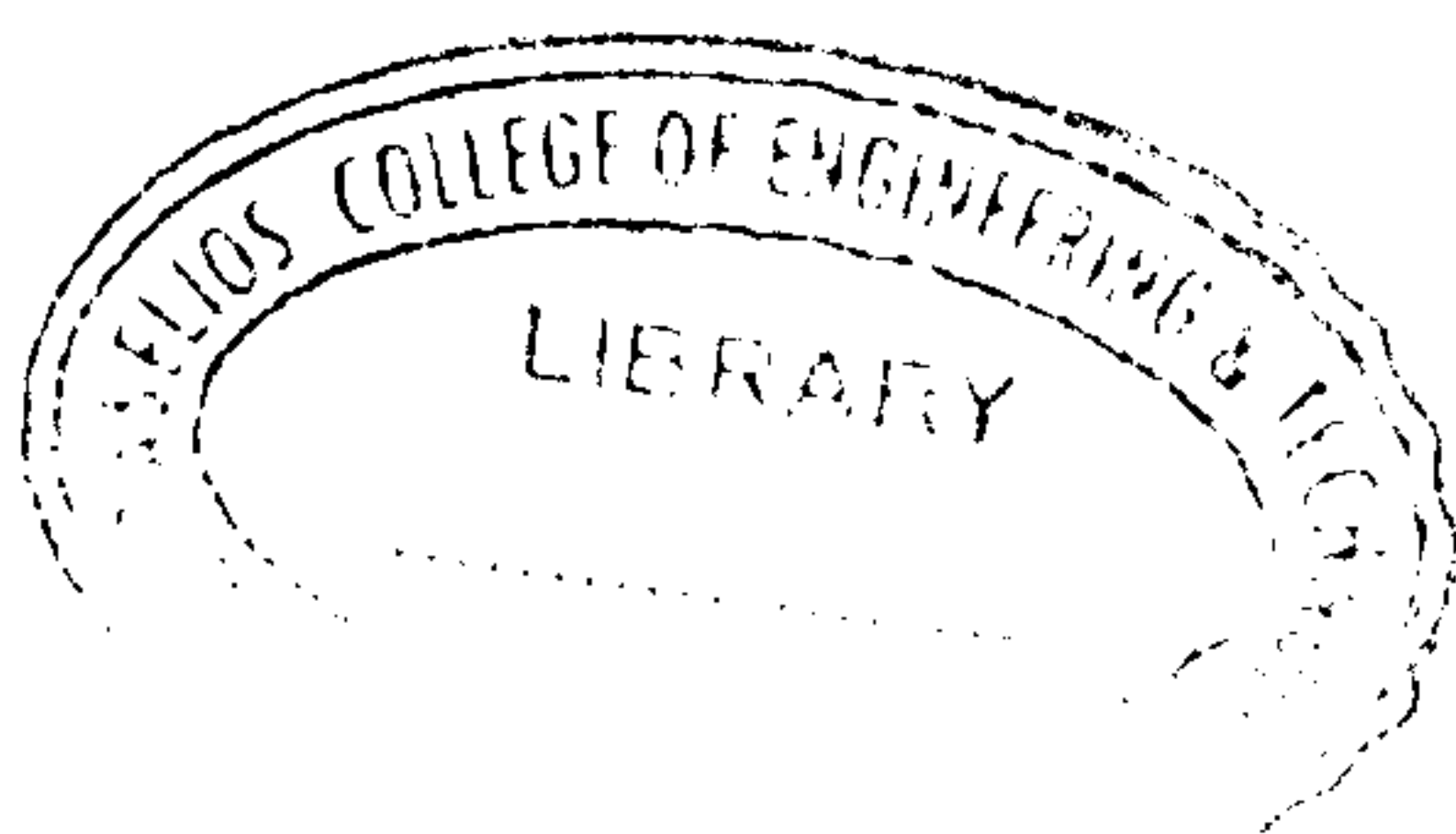
12. (a) What is break even point (BEP)? What is its significance? List a few methods of lowering BEP. (10)
- (b) What is meant by Depreciation? Discuss the different methods of calculating depreciation. (10)

Module – II

13. (a) What are the reasons for Plant location study? List the general and specific factors influencing selection of Plant location. (10)
- (b) What are the factors influencing Wage system? Discuss the characteristics of a good Incentive system? (10)

OR

14. (a) Explain the steps in Method study. Which are the common Recording techniques? (10)
- (b) Discuss the Material flow patterns; (i) Horizontal flow system (ii) Vertical flow system. (10)



### Module – III

15. (a) Discuss the three phases of Production, Planning and Control (PPC). Comment on the Expediting and Dispatching functions of PPC. (10)
- (b) List the names of all the Control charts for variables. Explain this steps to prepare R-Chart. (10)

OR

16. (a) What is the concept of Six Sigma? Explain the following two approaches for achieving Six Sigma:
- (i) DMAIC (ii) DMADV (10)
- (b) Explain the purchase model of Inventory with instantaneous replenishment and without shortages. Derive an expression for EOQ. (10)

