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Roll No. :

337833(37)

APR-MAY 2022

B. E. (Eighth Semester) Examination, 2020

(New Scheme)

(Mech., Automobile Engg. Branch)

INDUSTRIAL ENGINEERING & MANAGEMENT

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Part (a) of each question is compulsory.

*Attempt any two parts from (b), (c) and (d)
in each question.*

Unit-I

1. (a) What is the application of Industrial Engineering? 2

(b) What is the place of Industrial Engineering in an
organisation? 7

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- (c) What are the factors affecting plant location? 7
- (d) What are the different types of plant layout? Explain line type layout in detail. 7

Unit-II

2. (a) Define work study. 2
- (b) Explain procedure to conduct work study. 7
- (c) Explain scope, steps involved and selection of job for method study. 7
- (d) The observed time and performance rating for the five elements are given. Compute the standard time assuming rest and personal allowance is 15% and contingency allowance 2% of the basic time. 7

Element observed	1	2	3	4	5
Observed time	0.2	0.8	0.5	0.12	0.1
Performance rating	85	80	90	85	80

Unit-III

3. (a) What are the objectives of Job Evaluation? 2

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- (b) Explain methods of job evaluation. 7
- (c) Explain Taylors differential piece rate system. 7
- (d) Define Merit rating. Also give benefits and methods of merit rating. 7

Unit-IV

4. (a) What are the objectives of basic function management? 2
- (b) What is the scope of human resource planning? 7
- (c) Explain authority and responsibility of a Manager. 7
- (d) Explain Maslow hierarchy of need theory. 7

Unit-V

5. (a) What is Marketing Management? 2
- (b) Explain marketing mix in detail. 7
- (c) Explain channels of distribution in detail. 7
- (d) ABC Company plans to sell an article at a local market. The articles are purchased at ₹ 5 on the

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condition that all unsold articles shall be returned. The rent for the space is ₹ 2,000. The article will be sold at ₹ 9. Determine the number of articles which must be sold. (i) To break even, (ii) To earn ₹-400 as profit. (iii) If the company sells 750 articles calculate margin of safety and profit.

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