

Roll No.

Total Pages : 03

J-FB-22-00436

B. Tech. EXAMINATION, 2022

Semester VII (CBCS)

INDUSTRIAL ENGINEERING AND PRODUCTION
MANAGEMENT

ME-704

Time : 3 Hours

Maximum Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt *Five* questions in all, selecting *one* question from each Sections A, B, C and D. Q. No. 9 is compulsory.

Section A

1. What are the objectives, functions and importance of human resource management in an industry ? 10

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P.T.O.

2. What is Industrial Engineering ? What are its scopes ? List at least *ten* roles/activities of an industrial engineer in industry. 10

Section B

3. What are the different steps/procedures involved in conducting time study ? Explain in detail with example. 10
4. What are the important methods of wage payments ? Explain in detail. Also explain the concept of wage incentive schemes. 10

Section C

5. What are the different types of MSD injuries ? What are its characteristics ? How can we identify and control MSD hazards ? What are the protective measures ? 10
6. What are the different qualitative forecasting methods ? Explain each of them in detail. 10

Section D

7. List different types of facility layouts. Illustrate with example about the service facility layout. What are the factors that affect location decisions ? 10

8. What is inventory ? Explain fixed order quantity systems and fixed order period systems. 10

(Compulsory Question)

9. Write short answers of the following : 10×2=20
- (a) Draw a flow process chart for the manufacturing of a dumbbell. Assume the missing inputs.
 - (b) What is the difference between cycle graph and chronocycle graph ?
 - (c) Define Dispatching.
 - (d) Define the term 'Work Study' according to International Labour Organization (ILO).
 - (e) What is job evaluation ?
 - (f) Define Ergonomics.
 - (g) What is PPC ?
 - (h) What is standard time ?
 - (i) What are the principles of management ?
 - (j) What are gravity location problems ?