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Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 39921 Roll No.

B. Tech Examination 2024-25

(Even Semester)

INDUSTRIAL MANAGEMENT

Time : Three Hours] *[Maximum Marks : 60*

Note :– Attempt all questions.

SECTION–A

1. Attempt all parts of the following : $1 \times 8 = 8$

   (a) How is productivity defined in an industrial content?

   (b) Explain ~~supply chain~~. scalar chain

   (c) Define CSR.

   (d) What is sequential sampling?

   (e) Explain project management.

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(f) What is CPM?

(g) Explain single sampling.

(h) What is the significance of production planning?

SECTION – B

2. Attempt any two parts of the following : $2 \times 6 = 12$

(a) What is a productivity index and how is it calculated?

(b) Explain TQM with its key principles..

(c) An MNC has been criticized for not fulfilling its social responsibility in the community it operates. What CSR strategies would you suggest for better community and employee engagement?

(d) A project has activites A-B-C. A takes 4 days, B takes 5 days, and C takes 3 days. Find the total project using CPM.

SECTION – C

Note:- Attempt all questions. Attempt any two parts from each question. $8 \times 5 = 40$

3. (a) Explain the concept, development and scope of industrial management.

(b) What are the key steps involved in production planning and control?

(c) A factory produces 500 units using 250 labour hours. Calculate the labour productivity.

4. (a) What is PPP model and how is it used in industries?

(b) A factory observes workers taking varying times to complete a simple packaging task. Management suspects unnecessary motion and fatique.

Explain :

(i) How can time and motion study help identify ~~inefficieneies~~? defficiency.

(ii) What steps would you take to conduct such a study?

(c) Draw and explain a simple process chart for making a cup of tea.

5. (a) A company orders 1000 units/month.

Ordering cost = Rs.100/order

Holding cost = Rs. 2/unit/month

Calculate EOQ.

(b) What is TQM? Mention any two principles and how they apply in a manufacturing setup?

(c) What is inventory and why it is important in industry?

6. (a) What is project crashing and when is it applied?

(b) A construction project is facing delays due to poor scheduling and resource mismanagement. How would techniques like CPM and PERT help resolve the issue?

(c) What is resource leveling and why is it important in project management?

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