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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 2022-23

(Even Semester)

INDUSTRIAL MANAGEMENT

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

Note :– Attempt all questions.

SECTION–A

1. Attempt all parts of the following : 8×1=8

   (a) Industrial management canbe considered as the management of man, material and machines. Explain this statement.

   (b) Explain advantage of higher productivity.

   (c) What is method study?

   (d) Define ABC analysis and its benefits.

   (e) What is product life cycle?

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(f) How is a job shop different from the batch production?

(g) Differentiate between LIFO and FIFO system.

(h) "Routing decision is something which depends upon production planning".

SECTION – B

2. Attempt any two parts of the following : 2×6=12

(a) Define production function. What are the different types of production systems?

(b) Explain the advantage of higher productivity. Also discuss the difficulties encountered in measuring productivity.

(c) What do you understand by quality control? Explain the factors that affect quality. Also discuss its area of application.

(d) Explain in detail the salient features of supply chain management.

SECTION – C

Note :– Attempt all questions. Attempt any two parts from each question. 5×8=40

3. (a) Explain the factors affecting facility location planning.

(b) What is cellular layout? How is it different from a process layout? How is group technology useful in cellular layout?

(c) Explain the process of production planning and control.

4. (a) What is meant by the capacity of a facility? In what ways can be capacity of a facility be measured? Why is capacity requirements planning required for a facility?

(b) Define the Just-in-Time (JIT) system and explain the basic concept of JIT manufacturing.

(c) Write different categories of ISO-9000 quality. Give details of how ISO-9000 can be implemented.

5. (a) What is method study and what are its objectives and importance?

(b) What are various types of project network analysis?

(c) What is EOQ? Derive an expression for the economic order quantity for the uniform demand and infinite production rate. State the various assumptions made.

6. (a) What are essentials of TQM? Describe Kaizen. Explain how it helps to the organization?

(b) What do you mean by six sigma? Also explain its benefits in corporate world.

(c) Write short notes on any two of the following :

(i) Public and private ownership

(ii) Partnership

(iii) Joint stock company

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