

QUESTION 2014

Group – A

(Multiple Choice Type Questions)

1. Answer any ten of the following (Choose the correct one):

- i) Which of the following constitute conversion cost?
- a) Material cost & direct wages
 - b) Direct wages & factory overhead
 - c) Material cost & factory overhead
 - d) Office overhead & direct wages
- ii) Which type of layout is most suitable for the requirements of a jobbing facility?
- a) Product layout
 - b) Process layout
 - c) Circular layout
 - d) None of these
- iii) Production Management is valid for
- a) Manufacturing
 - b) Hospital
 - c) Hotel
 - d) All of these
- iv) Production Planning and Control activities are carried out to
- a) Ensure timely delivery
 - b) Utilize resources effectively and economically
 - c) Be a flexible system;
 - d) None of these
- v) PPC means:
- a) Production, procurement and control
 - b) Production Planning and Control
 - c) Production, productivity and control
 - d) None of these
- vi) Mass Production System is adopted when
- a) 'Volume' is very large and 'variety' is less
 - b) 'Volume' is very small and 'variety' is large
 - c) Both 'volume' and 'variety' are medium
 - d) None of these
- vii) Measure of efficiency of a productive system is also known as
- a) Utility
 - b) Efficacy
 - c) Effectiveness
 - d) Productivity
- viii) For an integrated Steel Plant, plant location decision is primarily influenced by the consideration of
- a) Proximity to the market
 - b) Proximity to the raw material source
 - c) Availability of electricity
 - d) None of these

ix) 'Work measurement' is done for

- ✓ a) Determining the standard time
- c) Ensuring high productivity

- b) Streamlining the method
- d) None of these

x) The objective of 'Plant maintenance' is to

- ✓ a) Increase the availability of the equipment and facilities
- b) Increase the utilization of machines and equipment
- c) Upgrade machines and equipment
- d) None of these

xi) Statistical quality control is done to

- ✓ a) Prevent any defective product from going out of the factory
- b) Observe the trend of product quality
- c) Initiate corrective action if quality trend shows an adverse pattern
- d) None of these

xii) The control chart which is used in a situation where fraction defectives are the criteria for acceptance or rejection is called

- a) X-chart
- b) R-chart
- ✓ c) P-chart
- d) C-chart

Group - B

(Short Answer Type Questions)

2. How can the production system be classified?

See Topic: **PRODUCTION PLANNING AND CONTROL**, Short Answer Type Question No. 2.

3. Mention the important factors affecting selection of location of a plant.

See Topic: **PLANT LOCATION AND LAYOUT**, Short Answer Type Question No. 2.

4. Define Cyclegraphs and Chrono-cyclegraphs.

See Topic: **WORK STUDY**, Short Answer Type Question No. 4.

5. What is Time Study? Enumerate the steps in conducting Time Study. What is meant by standard Time?

See Topic: **WORK STUDY**, Short Answer Type Question No. 8.

6. What is Statistical Quality Control (SQC)?

See Topic: **INSPECTION AND QUALITY CONTROL**, Short Answer Type Question No. 2.

Group – C

(Long Answer Type Questions)

7. State the different factors influencing the plant layout. Tabulate the various merits & demerits of Product layout. Define method study.

1st & 2nd Part: See Topic: **PLANT LOCATION AND LAYOUT**, Long Answer Type Question No. 1 (1st & 3rd part).

3rd Part: See Topic: **WORK STUDY**, Long Answer Type Question No. 5 (2nd part).

8. Write short notes on any two of the following:

a) Performance Rating

b) Six Sigma

c) Kaizen Philosophy

d) Materials Handling System

a) See Topic: **WORK STUDY**, Long Answer Type Question No. 14 (a).

b) See Topic: **INSPECTION AND QUALITY CONTROL**, Long Answer Type Question No. 7(d).

c) See Topic: **INSPECTION AND QUALITY CONTROL**, Long Answer Type Question No. 7(a).

d) See Topic: **PLANT MAINTENANCE AND MATERIALS HANDLING**, Long Answer Type Question No. 5.

9. What is Normal Time? Describe various allowances that are used to calculate the Standard Time? In the factory of TATA Motors the basic time is established to be 40 secs by the Plant Manager. If for three observation, a time study observe records rating of 100, 125 & 80 respectively on a 100 Normal Scale. What are the observed timing?

See Topic: **WORK STUDY**, Long Answer Type Question No. 13.

10. Briefly outline the scope of Maintenance Management. Write a short note on Breakdown Maintenance. Briefly underline the concept of Preventive Maintenance.

See Topic: **PLANT MAINTENANCE AND MATERIALS HANDLING**, Long Answer Type Question No. 7.

11. Explain in brief the principles of "Material Handling System". Discuss the different types of material handling equipment with examples.

See Topic: **PLANT MAINTENANCE AND MATERIALS HANDLING**, Short Answer Type Question No. 9 & 10.