

QUESTION 2015

Group - A

(Multiple Choice Type Questions)

1. Answer any ten questions:

i) If F = Fixed Cost, V = Variable Cost, S = Sales Revenue then break-even point is

a) $\frac{F}{(S-V)}$

b) $\frac{(S-V)}{F}$

c) $\frac{F}{(S+V)}$

d) $\frac{(S+V)}{F}$

ii) The control chart which is used in a situation where defective charts of constant sample size are the criteria for acceptance or rejection is called

a) \bar{X} -chart

b) R -chart

c) P -chart

d) none of these

iii) One of the important methods of evaluating location alternatives is

a) scheduling method

b) project evaluation review technique

c) qualitative factor analysis method

d) routing

iv) Productivity is

a) input/output

b) input-output

c) output/input

d) none of these

v) SIMO chart is used in

a) machine loading

b) project scheduling

c) quality control

d) method study

vi) Load distance analysis is useful in

a) measuring break-even point

b) computing EOQ

c) minimizing transportation costs by evaluating alternate layouts

d) vendor selection

vii) After inspection of ten rods, each of length 5 meters, the following numbers of defects are found on each rod: 45, 42, 52, 46, 51, 46, 50, 43, 51 and 49. The control chart suitable will be

a) R-Chart

b) P-Chart

c) C-Chart

d) A combination of R-Chart and P-chart

viii) Which of the following material handling equipment operates on a fixed path?

a) Lift truck

b) Belt conveyor

c) Hand trolley

d) Pallet

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- ix) Process layout requires comparatively more space than _____ layout
- a) Piece b) Design ✓ c) Product d) Special
- x) TQM stands for
- a) Total Quality Monitoring ✓ b) Total Quality Management
- c) Total Quality Maintenance d) None of these
- xi) In method study "→" represents
- a) Inspection b) Operation ✓ c) Transportation d) Delay

Group – B

(Short Answer Type Questions)

2. State briefly Production as a system. Explain the term Productivity.

See Topic: **PRODUCTION PLANNING AND CONTROL**, Short Answer Type Question No. 7.

3. State the types of production system. Explain scope of Production, Planning and Control.

See Topic: **PRODUCTION PLANNING AND CONTROL**, Short Answer Type Question No. 8.

4. Define Quality. Briefly focus on Inspection and Quality control.

See Topic: **INSPECTION AND QUALITY CONTROL**, Short Answer Type Question No. 10.

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

5. Pinpoint the difference between Process and Product layout. Name two major criteria for a good Plant layout.

See Topic: **PLANT LOCATION AND LAYOUT**, Short Answer Type Question No. 3.

6. Define and state the objectives of work study.

See Topic: **WORK STUDY**, Short Answer Type Question No. 3 and Long Answer Type Question 15(f).

Group – C

(Long Answer Type Questions)

7. a) What are the objectives of 'Method Study'?

b) Discuss the various steps in Method Study procedure.

c) Point out its advantages.

a) See Topic: **WORK STUDY**, Short Answer Type Question No. 6(a).

b) See Topic: **WORK STUDY**, Long Answer Type Question No. 6.

c) See Topic: **WORK STUDY**, Short Answer Type Question No. 6(b).

8. What is work sampling? What are its merits?

A group of 10 workmen working 8 hours per day (one shift) on a group of engine lathes produced 320 pieces of a component. During the study, it was observed that workmen were idle for 20% of the total available time and 80% of the time they worked at an average performance of 75%. Calculate Standard Time for the job assuming

- i) the operation to be completely manual
- ii) the workmen are entitled to 20% allowance for this type of work.

1st part: See Topic: **WORK STUDY**, Short Answer Type Question No. 7.

2nd part: See Topic: **WORK STUDY**, Long Answer Type Question No. 7.

9. a) Define 'Cost of Quality'

b) Explain the three categories of cost of quality.

c) Write a short note on ISO 9000 series of standards on Quality Management systems.

a) & b) See Topic: **INSPECTION AND QUALITY CONTROL**, Short Answer Type Question No. 6.

c) See Topic: **INSPECTION AND QUALITY CONTROL**, Long Answer Type Question No. 14(e).

10. Briefly explain the various quality control tools used in Production management.

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

11. Briefly describe the various types of maintenance strategies.

See Topic: **PLANT MAINTENANCE AND MATERIALS HANDLING**, Long Answer Type Question No. 8.