

Q.14 Write the names of various techniques of work measurement. Explain any two.

Q.15 Write aims and objectives of value analysis.

Q.16 Differentiate between PERT and CPM techniques.

Q.17 Distinguish between defects and defectives. Explain the construction and operation of a *p* chart.

Q.18 Explain the TQM principles.

SECTION-D

Note: Long answer type questions. Attempt any one questions out of two questions. (1x10=10)

Q.19 Define the concept of standard time. Explain briefly clearly the steps involved in arriving at standard time, starting with observed time.

Q.20 What is PERTS technique? Explain with a suitable example.

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Subject:- Industrial Engineering

Time : 3Hrs.

M.M. : 50

SECTION-A

Note: Multiple choice questions. All questions are compulsory (5x1=5)

Q.1 Process layout is best suited for

- a) Batch production
- b) Continuous type of product
- c) Effective utilization of machines
- d) All of the above

Q.2 Time study is carried out to determine the time required to complete job by

- a) A slow worker b) A fast worker
- c) An average worker d) An apprentice

Q.3 Which of the following is true?

- i) Value analysis is a cost reduction technique.
- ii) Value analysis is a cost prevention technique.
- a) i only b) ii only
- c) i and ii d) Neither i nor ii

Q.4 Attribute charts require comparatively _____ sample size.

- a) Very small b) Small
- c) Very big d) Big

Q.5 Pessimistic time is

- a) The average time required for a job
- b) The maximum time which an activity might require
- c) The most probable time considering all conditions
- d) The minimum time in which an activity can possibly be accomplished

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (5x1=5)

Q.6 System Evaluation

Q.7 Plant Layout

Q.8 Work Measurement

Q.9 Network Analysis

Q.10 Statistical Quality Control

SECTION-C

Note: Short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

Q.11 Explain the contribution of standardization in improving productivity.

Q.12 Distinguish between job production and batch production.

Q.13 Enlist various recording techniques used in method study. Explain any two.