1. Which of the following is NOT a method of construction for form work and centering?

a) Slip forming
b) Timber formwork
c) CPM
d) Steel formwork

Answer: c) CPM

Explanation: Critical Path Method (CPM) is a project management technique, not a method of construction for form work and centering. CPM is used to schedule and manage complex projects, while slip forming, timber formwork, and steel formwork are actual construction methods used for form work and centering.

2. What is the purpose of a job layout in construction management?

a) To determine the color scheme of the building
b) To organize the construction site for efficient workflow
c) To calculate the project budget
d) To design the architectural elements

Answer: b) To organize the construction site for efficient workflow

Explanation: Job layout in construction management involves organizing the construction site to optimize workflow, material handling, and resource allocation, ensuring efficiency and productivity.

3. Which technique is used to identify the critical path in project scheduling?

a) SWOT analysis
b) PERT analysis
c) CPM analysis
d) Gantt chart

Answer: c) CPM analysis

Explanation: Critical Path Method (CPM) analysis is specifically used to identify the critical path in project scheduling, which represents the longest sequence of dependent tasks determining the minimum time needed to complete a project.

4. What modern management technique is based on a network analysis of project activities?

a) Six Sigma
b) Lean management
c) PERT
d) Quality management

Answer: c) PERT

Explanation: Program Evaluation and Review Technique (PERT) is a modern management technique based on a network analysis of project activities. It helps in scheduling, coordinating, and controlling complex projects.

5. Which method of construction involves continuously pouring concrete into a moving formwork?

a) Slip forming

b) Timber formwork
c) Prefabrication
d) CPM

Answer: a) Slip forming

Explanation: Slip forming is a construction method where concrete is poured into a continuously moving formwork. It is commonly used for constructing tall structures like towers and bridges.

6. What is the primary purpose of using formwork in construction?

a) To provide structural support
b) To enhance the aesthetic appeal
c) To improve energy efficiency
d) To facilitate project management

Answer: a) To provide structural support

Explanation: Formwork in construction is primarily used to provide temporary support and containment for concrete until it sets and gains sufficient strength to support its own weight and any applied loads.

7. Which modern management technique focuses on minimizing waste and maximizing value for the customer?

a) CPM
b) Six Sigma

c) Gantt chart
d) Lean management

Answer: d) Lean management

Explanation: Lean management focuses on minimizing waste and maximizing value for the customer by continuously improving processes, reducing lead times, and optimizing resource utilization.

8. What does CPM stand for in the context of construction management?

a) Construction Project Management
b) Critical Path Method
c) Continuous Production Model
d) Cost Per Mile

Answer: b) Critical Path Method

Explanation: CPM stands for Critical Path Method, which is a project management technique used to schedule and manage complex projects effectively.

9. Which technique allows for the calculation of the probability of completing a project by a certain date?

a) Gantt chart
b) PERT analysis
c) SWOT analysis
d) Lean management

Answer: b) PERT analysis

Explanation: Program Evaluation and Review Technique (PERT) analysis allows for the calculation of the probability of completing a project by a certain date by considering the variability in task durations and dependencies.

10. What is the purpose of construction management principles?

a) To design architectural elements
b) To manage financial transactions
c) To ensure projects are completed on time and within budget
d) To oversee legal compliance

Answer: c) To ensure projects are completed on time and within budget

Explanation: Construction management principles are aimed at ensuring projects are completed on time and within budget by effectively coordinating resources, schedules, and tasks while maintaining quality standards.