

Tutorial Questions

1 Which project management methodology follows a linear and sequential approach?

- A. Agile
- B. Scrum
- C. Waterfall
- D. Kanban

2 In which methodology are requirements defined at the beginning and changes are difficult to accommodate?

- A. Agile
- B. Waterfall
- C. Lean
- D. DevOps

3 Which methodology emphasizes iterative development and customer collaboration?

- A. PRINCE2
- B. Six Sigma
- C. Agile
- D. Critical Path Method

4 In Scrum, who is responsible for maximizing the value of the product?

- A. Scrum Master
- B. Development Team
- C. Product Owner
- D. Project Sponsor

5 Which methodology is process-driven and widely used in the UK government?

- A. Agile
- B. Scrum
- C. PRINCE2
- D. Kanban

6 Which phase of the Software Development Life Cycle (SDLC) involves gathering and documenting user requirements?

- A. Design
- B. Implementation
- C. Requirements Analysis
- D. Maintenance

7 Creating system architecture and technical specifications occurs during which SDLC phase?

- A. Testing
- B. Design
- C. Deployment
- D. Planning

8 Writing and compiling source code takes place in which phase?

- A. Implementation (Coding)
- B. Maintenance
- C. Feasibility Study
- D. Analysis

9 Which SDLC model follows a linear and sequential approach?

- A. Agile Model
- B. Spiral Model
- C. Waterfall Model
- D. DevOps Model

10 In Agile development, requirements and solutions evolve through:

- A. Detailed upfront documentation
- B. Customer collaboration and iterative cycles
- C. Single delivery phase
- D. Strict sequential phases

Scenario-Based MCQs for Firewalls

1 Changing Requirements in Software Project

A software development project experiences frequent changes in customer requirements. The client wants continuous feedback and incremental deliveries.

Which methodology is most suitable?

- A. Waterfall
- B. Agile
- C. Critical Path Method (CPM)
- D. PRINCE2

2 Risk-Focused Development

A large, high-risk software project requires repeated risk analysis and prototyping at every stage.

Which model should be selected?

- A. Waterfall
- B. Spiral
- C. Kanban
- D. Scrum

3 Visual Task Management

A team uses a board with columns labeled “To Do,” “In Progress,” and “Done” to manage workflow and limit tasks in progress.

Which methodology is this?

- A. Scrum
- B. Waterfall
- C. Kanban
- D. PRINCE2

4 A project has the following three-point estimates for an activity:

Optimistic (O) = 4 days, Most Likely (M) = 10 days, Pessimistic (P) = 16 days.

Using PERT, what is the expected duration?

- A. 10 days
- B. 9 days
- C. 11 days
- D. 12 days

5 In a project network diagram, the critical path is best described as:

- A. The shortest path in the project
- B. The path with the most resources
- C. The longest path determining project duration
- D. The path with the lowest cost

6 A project manager shortens the project duration by adding extra resources to critical path activities.

This technique is known as:

- A. Fast Tracking
- B. Crashing
- C. Resource Leveling
- D. Rolling Wave Planning

7 Which planning tool identifies task dependencies and sequencing?

- A. Risk Register
- B. Work Breakdown Structure (WBS)
- C. Network Diagram
- D. Stakeholder Matrix

8 According to the Project Management Institute PMBOK Guide, which process group includes developing the project schedule?

- A. Initiating
- B. Planning
- C. Executing
- D. Closing

9 Rolling Wave Planning is best described as:

- A. Planning all details at project start
 - B. Planning near-term work in detail and future work at a high level
 - C. Reducing scope to meet deadlines
 - D. Replacing the project plan
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