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BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Tech.(CSE)-AIML-2021/B.Tech.(CSE)-DS-2021/B.Tech.(CSE)-AIML-2022/B.Tech.(CSE)-DS-2022

Course Name – Software Project Management

Course Code - OEC-CSM601A/OEC-CSD601A

(Semester VI)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Select the purpose of project evaluation.
 - a) To initiate a project
 - b) To monitor project progress
 - c) To assess project outcomes and performance
 - d) To close a project
- (ii) Name the primary purpose of change control in software project management.
 - a) Defining project scope
 - b) Implementing new technologies
 - c) Managing and controlling changes to project baselines
 - d) Documenting project risks
- (iii) Name the main objective of Software Configuration Management (SCM) in software project management.
 - a) Writing code efficiently
 - b) Managing changes to project artifacts
 - c) Conducting system testing
 - d) Creating project documentation
- (iv) Identify the aspect of contract management involves reviewing and approving changes to the terms and conditions of the contract.
 - a) Contract negotiation
 - b) Contract monitoring
 - c) Contract closure
 - d) Contract modification
- (v) Predict the significance of the "dummy activity" in a CPM network.
 - a) Represents an activity with no duration
 - b) Represents a critical path activity
 - c) Represents a high-risk activity
 - d) Represents an optional activity
- (vi) Judge the term "critical path drag" refer to in CPM analysis.
 - a) The total float of an activity
 - b) The impact of a critical path activity on the project duration
 - c) The duration of the critical path
 - d) The resource constraints on the project
- (vii) Choose: Simulation models can be used to obtain operating characteristic estimates in less time than with the real system using a feature of simulation called:

- a) Microseconds
c) Time compression
- b) Warp speed
d) None of these
- (viii) State, which Organizational Behavior concept helps in understanding how individuals adapt to change within software projects?
- a) Leadership styles
c) Group dynamics
- b) Change management
d) Organizational culture
- (ix) Select the role of personality tests in staff selection for software project management?
- a) Assessing technical skills
c) Understanding candidates' work preferences and behavior
- b) Evaluating communication abilities
d) Identifying project management experience
- (x) Identify the following activities are typically included in Software Project Management
- a) Requirement gathering and analysis.
c) Risk management and mitigation
- b) Resource allocation and scheduling
d) All of the above
- (xi) Indicate to the Agile methodology emphasizes continuous improvement through regular retrospectives
- a) Scrum
c) Lean
- b) Kanban
d) Extreme Programming (XP)
- (xii) Identify to the primary goal of Project Portfolio Management
- a) Maximizing the number of projects in the portfolio
c) Ensuring alignment with organizational goals and strategies
- b) Minimizing project risks
d) Completing projects as quickly as possible
- (xiii) Cite the primary objective of the Dynamic System Development Method (DSDM).
- a) To create software quickly without user involvement
c) To replace all traditional software development models
- b) To provide a structured approach to agile software development
d) To develop software without documentation
- (xiv) Distinguish between COCOMO and COCOMO II.
- a) COCOMO II is an advanced version that accounts for modern software development practices
c) COCOMO II ignores cost estimation
- b) COCOMO II is only applicable to waterfall model projects
d) COCOMO II eliminates effort multipliers
- (xv) Choose the primary goal of Rapid Application Development (RAD).
- a) To develop applications as quickly as possible with minimal planning
c) To emphasize extensive documentation over working prototypes
- b) To follow a rigid, linear software development approach
d) To ensure that software development is slow and error-free

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Explain the differences and similarity in between V-Model with Waterfall model. (3)
3. Explain the basics of software estimation. (3)
4. Write the Core Job Characteristics of Oldham-Hackman Job Characteristic Model. (3)
5. Prepared the three estimates in PERT? (3)
6. Explain Software Configuration Management. (3)

OR

- Analyse the importance of managing contracts. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Discuss the important management principles for software projects. (5)

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8. Explain Contingency in connection with risk management. (5)
9. Illustrate COCOMO II model for effort estimation. (5)
10. Define the advantages of utilizing behavioral interviews, and how can they be effectively structured for software project teams? (5)
11. Summarize the disadvantage and advantage of CPM and PERT? (5)
12. Explain why is prioritizing monitoring essential in project management? (5)

OR

Evaluate the project managers part in determining the priority of monitoring activities? (5)
