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Total No. of Pages : 02

Total No. of Questions : 09

MCA (Sem.-3)
SOFTWARE PROJECT MANAGEMENT

Subject Code : PGCA1930

M.Code : 90801

Date of Examination : 23-06-2025

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying TEN marks each.
4. Select at least TWO questions from SECTION - B & C.

SECTION - A

1. Write short notes on :

- a) Justify the role of Software Engineering in software industry.
- b) What do you understand by Stakeholder management as a phase in Software Project Management?
- c) Pictorially represent the working of spiral model as evolutionary process model.
- d) Write down the working principle of extreme programming used in Software Project Management.
- e) Why SRS is called as the 'Only Legal Document' in whole software cycle?
- f) Draw a state transition diagram while considering any illustration of your choice.
- g) Define the term Work Breakdown Structures (WBS) in planning phase.
- h) List down any four risks that can cause the software crisis.
- i) Brief out any one approach that can be used to schedule the project with relevant example.
- j) Elaborate how risks can be evaluated.

SECTION - B

2. a) What are the various activities in software project management? Explain.
b) Discuss in detail about team structure.
3. Elaborate how detailed COCOMO works differently than intermediate COCOMO.
4. Differentiate the working of iterative and incremental models to perform Software Project management.
5. Explain different types of software requirements collected at SRS phase with apt examples.

SECTION - C

6. What are various software quality parameters? Explain the role of quality metrics and ISO9126 standard in software quality management.
7. a) What is the difference between an SCM audit and a technical review? Can their function be folded into one review? What are the pros and cons?
b) Explain Oldman Hackman job characteristic model. Elaborate with example.
8. What are the various contracts? Discuss various stages in any contract placement. Also discuss various aspects of contract management with the help of suitable example.
9. a) You are an engineer involved in the development of a financial system. During installation, you discover that this system will make a significant number of people redundant. The people in the environment deny you access to essential information to complete the system installation. To what extent should you, as a systems engineer, become involved in this? Is it your professional responsibility to complete the installation as contracted? Should you simply abandon the work until the procuring organization has sorted out the problem?
b) A formal technical review is effective only if everyone has prepared in advance. How do you recognize a review participant who has not prepared? What do you do if you're the review leader?

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.