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DCCA401

Reg. No.

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IV Semester B.C.A. Degree Examination, June/July - 2025

COMPUTER APPLICATIONS

Software Engineering

(NEP Scheme)

Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer All the Sections.

SECTION - A

I. Answer any **Four** questions. Each question carries 2 marks.

(4×2=8)

1. Mention the impacts of Software Engineering.
2. Define Feasibility Study.
3. What is Box Structure Specification?
4. Mention the stakeholders in software project management.
5. Define PNR Curve.
6. List the activities in software maintenance.

SECTION - B

II. Answer any **Four** questions. Each question carries 5 marks.

(4×5=20)

7. Explain the phases of SDLC.
8. Explain W⁵HH principle.
9. Who are Independent Test Group? Explain the roles and responsibilities of the ITG.
10. What is White-Box Testing? Explain the characteristics of White-Box Testing.
11. Explain the principles of Project Scheduling.
12. What is RMMM Plan? Explain key components of RMMM plan.

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SECTION - C

III. Answer any Four questions. Each question carries 8 marks. (4×8=32)

13. a) Explain different types of non-functional requirements.
b) Explain the salient features Agile. (4+4)
14. a) What is Certification in Cleanroom Strategy? Explain Certification Process.
b) Explain Five-Step Commensense Approach to Software Projects. (4+4)
15. What is System Testing? Explain different types of testing done in System-testing.
16. a) Write a note on Tracking the schedule.
b) Explain Reactive and Proactive Risk Strategy. (4+4)
17. a) What is software maintenance? Explain the challenges in software maintenance.
b) What is Reengineering? Explain the need for Reengineering. (4+4)
18. a) Explain the Approaches to Software Process Improvement (SPI).
b) Write a note on software configuration management features. (4+4)