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Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment I – August 2025
V SEMESTER

Class: 2019 & 2022 Batch (Repeaters)
Major: Computer Applications

Time: 2 Hours
Max Marks: 60

18BCAC20/21BCAC20 Software Engineering

Course Outcomes:

- CO1 : Acquire strong fundamental knowledge in software engineering.
CO2: Ability to apply software engineering principles, techniques, tools and practices.
CO3: Effectively demonstrate competence in communication, planning, analysis, design, construction, testing and deployment.
CO4: Adapt to new emerging technologies and methodologies.
CO5: Cope up with software quality standards.

Part – A

6x 1=6

Choose the correct answer

1. Process model is represented by CO1K1
a. CMMI b. SEM c. SEP d. CMM

2. A software process is CO1K1
a) A methodology for assembling computer hardware
b) A structured set of activities required to develop a software system
c) The steps a user follows while using an application
d) The career lifecycle of a software developer

3. The major drawback of RAD model is CO2K2
a) It demands experienced developers and designers to build reusable components quickly
b) It heavily depends on continuous customer involvement and feedback
c) It delays the delivery of working prototypes
d) It reduces team collaboration and communication

4. What is the major drawback of the Spiral Model? CO2K1
a. Higher amount of risk analysis
b. Doesn't work well for smaller projects
c. Additional functionalities are added later on
d. Strong approval and documentation control

5. Which of the following is not a key practice in software engineering? CO3K2
a) Requirement analysis b) Code documentation
c) Random code writing d) Software testing

6. Which one of the following is not a step of requirement engineering? CO3K1
a. Elicitation b.design c. analysis d.documentation

Part- B

3x6=18

Answer ALL Questions

Each answer should not exceed 400 words or two pages

7. a. What are the layers of software engineering. CO1K1
(or)
7. b. What is a process patterns and assessment in software engineering. CO1K1

8. a. Explain the Incremental model of software development with the help of diagram. CO2K2
(or)
8. b. Explain the Waterfall model of software development with diagram CO2K2
9. a. Explain the main activities and purpose of Feature Driven Development (FDD) CO2K2
(or)
9. b. How would you apply specification and validation activities during the development of a software project? Give suitable examples. CO3K3

Part-C

3x12=36

Answer ALL questions

Each answer should not exceed 800 words or four pages

10. a. Explain the activities involved in the Software Process Framework with suitable examples. CO1K2
(or)
10. b. Explain Capability Maturity Model Integration (CMMI) and its levels. CO1K2
11. a. Explain in detail about Evolutionary Process Models in software engineering CO2K2
(or)
11. b. How can Adaptive Software Development (ASD) & Dynamic Systems Development Method (DSDM) be applied in real-world software projects? Explain briefly with examples. CO2K3
12. a. How are Requirement Engineering tasks applied during software development? Discuss each task with suitable examples. CO3K3
(or)
12. b. How can software engineering practices such as Communication, Planning, Modelling, and Construction be applied during software development? Discuss with examples. CO3K3

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Staff-In-Charge: Dr.D.Ambika