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SARDAR PATEL UNIVERSITY**BCA Semester-6 External Examination – April-2026 (New Course) [NEP]
US06MABCA01 || SOFTWARE ENGINEERING****Date : 01-04 -2026****Time : 10.00 a.m. – 12.30 p.m.****Total : 50 Marks****Q-1 Select the appropriate option for the following questions: [10]**

- 1) _____ is systematic approach for development, operation, maintenance and retirement of software.
A. Software Predictability C. Software Process
B. Software Engineering D. Software Model
- 2) _____ model overcomes first two limitations of Waterfall model.
A. Spiral C. Iterative enhancement
B. Prototype D. Waterfall
- 3) _____ activity is used to understand the needs, goals and constraints.
A. Testing C. Design
B. Requirement Specification D. Problem Analysis
- 4) A high quality SRS reduces the development _____.
A. Time C. Cost
B. Customer requirements D. Quality
- 5) Which is not the level of Cohesion?
A. Logical C. Sequential
B. Physical D. Coincidental
- 6) Which one is the key term used in design of a system?
A. Module C. Process
B. Data D. None
- 7) Coding converts _____ into program code.
A. Requirements C. Testing
B. Design D. Maintenance
- 8) The output of the coding phase is _____.
A. Design document C. Unit tested code
B. Test plan D. User manual
- 9) _____ is the method to identify the Risk.
A. Risk Identification C. Risk Analysis
B. Risk Assessment D. Risk Control
- 10) _____ model provides better risk management and cost of each phase.
A. Spiral C. Iterative enhancement
B. Prototype D. Waterfall



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Q-2 Explain all the phases of software development.

OR

Q-2 Explain waterfall model in detail. [10]

Q-3 Define SRS. Explain its needs and major characteristics in detail. [10]

OR

Q-3 What you mean by SRS? Explain Components of SRS. [10]

Q-4 Explain System Design and Design objectives. [10]

OR

Q-4 Write a short note on Coupling. [10]

Q-5 What is coding phase? Explain the Top-Down and Bottom-Up approaches for coding. [10]

OR

Q-5 Explain the different levels of testing in Software Engineering. [10]

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