

A Charutar Vidya Mandal's Institution
V.P. & R.P.T.P. SCIENCE COLLEGE
(AUTONOMOUS) (Grant-in-Aid)
Affiliated to Sardar Patel University
VALLABH VIDYANAGAR-388120



Bachelor of Computer Applications (Semester- 6) Internal Examination - 2026
US06MABCA01: SOFTWARE ENGINEERING

Date: 06/03/26 Day: Friday

Time: 10:45 am To 12:15 pm

Total Marks:30

Q:1 Multiple Choice Questions:

[06]

1. _____ is the collection of computer programs, procedures and data.
(A) Hardware (B) Software
(C) Network (D) Engineering
2. _____ is the simplest and most widely used software development model.
(A) Spiral (B) Prototype
(C) Iterative enhancement (D) Waterfall
3. "System should respond within 2 seconds" is an example of: _____
(A) Functional Requirement (B) Performance Requirement
(C) Interface Requirement (D) Design Constraint
4. Which of the following is a tool in design phase?
(A) Abstraction (B) Refinement
(C) Information Hiding (D) All of them
5. Which is not the level of Cohesion?
(A) Logical (B) Physical
(C) Sequential (D) Coincidental
6. The output of the coding phase is
(A) Design document (B) Test plan
(C) Unit tested code (D) User manual

Q:2 What is Software engineering? Explain characteristics of software process.

[06]

OR

Q:2 Explain spiral model.

Q:3 Define SRS. Explain its needs and major characteristics in detail.

[06]

OR

Q:3 Describe the complete structure of SRS document .

Q:4 Discuss the basic principles of design in detail.

[06]

OR

Q:4 Explain the verification techniques for Detailed Design.

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

[06]

OR

Q:5 Explain the different levels of testing in Software Engineering.



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Bachelor of Computer Applications(Semester - 6) Quiz - 2026
US06MABCA01:SOFTWARE ENGINEERING

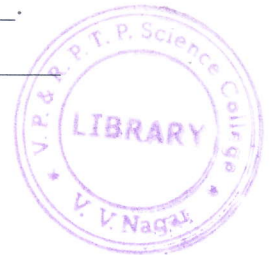
Date: 06/03/26 Day: Friday

Time: Maximum 20 minutes

Total marks :15

Q-1 Fill in the blanks with appropriate answer given in the bracket. [08]

- i. The coding should follow rules of _____.
- ii. _____ model removes the third limitation of Waterfall model.
- iii. _____ activity is used to understand the needs, goals and constraints
- iv. A SRS establishes the basis for agreement between the _____ and the _____.
- v. Number of subordinates associated with given module is known as _____
- vi. Most common method for designing algorithm is _____
- vii. Validation mainly focuses on _____.
- viii. Top-down coding starts with the _____ module.



Q-2 Whether the following statement is true or false. Write your answer in the box.[07]

- i. Detailed design is the second step of design phase. []
- ii. Iterative enhancement model provides better risk management and cost of each phase. []
- iii. The SRS is finalized after interaction between Tester and manager. []
- iv. The main goal of requirement elicitation is to gather and analyse user needs. []
- v. In functional abstraction the module considered as White box for detail design. []
- vi. Automated Cross checking technique is used to verification of system design []
- vii. Testing tools are mainly used to improve testing efficiency. []