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SEAT No._____

[4c/A-12]

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SARDAR PATEL UNIVERSITY
External Examination (CBCS)
B. Sc. - VIth Semester (Computer Science)
US06CCSC05: Software Engineering
4th April, Wednesday - 2018

Time: 10:00 am to 01:00 pm Total Marks: 70

Q-1 Select an appropriate option. 10

1. _____ is the simplest and most widely used software development model.
(a) Spiral (b) Prototype (c) Iterative enhancement (d) Waterfall

2. _____ Part requires major efforts.
(a) Testing (b) Maintenance (c) Coding (d) Design

3. _____model provides better risk management and cost of each phase.
(a) Spiral (b) Prototype (c) Iterative enhancement (d) Waterfall

4. A high quality SRS reduces the development _____.
(a) Time (b) Customer Requirements (c) Cost (d) Quality

5. COCOMO stands for _____.
(a) Construction Cost Model (b) Constructive Cost Model
(c) Constructive Code Model (d) Calculated Cost Model

6. Partitioning, abstraction and projection are used for _____.
(a) Data Analysis (b) Structuring Information (c) SDLC (d) DFD

7. PDL stands for _____.
(a) Process Define Language (b) Prefer Define Language
(c) Procedure Design Language (d) Process Design Language

8. _____ is verification technique for detail design.
(a) Design walkthrough (b) Critical design
(c) Consistency checkers (d) All of them

9. Structured programming is often called _____ programming.
(a) Goto-less (b) Object oriented (c) Procedural (d) None of these

10. Comments for a module are often called _____ for the module.
(a) Prologue (b) Message (c) Information (d) None of these

Q-2 Answer the following questions. (Attempt any **TEN**) 20

1. Define: Software and Software Engineering
2. Explain error distribution.

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3. Explain advantages of Spiral model.
4. Explain Projections.
5. What is Structured English?
6. Write the purpose of SQAP.
7. Define: Module and Modular System.
8. Differentiate between Top-down and Bottom-up approaches.
9. List the names of verification techniques for Detailed design.
10. Write the goal of Coding.
11. How the internal documentation helps?
12. Define: Error and Fault.

Q-3 Explain in detail Waterfall Model. 10

OR

Q-3 Explain in detail the Phases of Software Development. 10

Q-4

(a) What is the importance of project monitoring plans? List the various methods for monitoring a project. Write in brief about any one of them. 5

(b) Explain in detail the components of SRS. 5

OR

Q-4

(a) Explain general characteristics of SRS. 5

(b) Explain in detail Risk Management. 5

Q-5

(a) Discuss the Design Objectives in detail with proper illustrations. 5

(b) Write a short note on Coupling. 5

OR

Q-5

(a) What is Design Specification? Explain factors of it. 5

(b) Write a short note on Cohesion. 5

Q-6

(a) List all the Programming Style rules to write the code in coding phase and explain any three of them. 5

(b) Explain in detail the levels of testing. 5

OR

Q-6

(a) Explain the concept of information hiding in structured programming. 5

(b) Differentiate between Functional testing and Structural testing. 5