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SARDAR PATEL UNIVERSITY
BCA Semester-5 Examination, 2022
US05CBCA03 || SOFTWARE ENGINEERING [NC]
24th September, 2022.

Time : 03.30 p.m. – 05.30 p.m.

Marks: 70

- Q-1** **10**
Select the appropriate option for the following questions:
- 1) _____ is the simplest and most widely used software development model.
 A. Spiral B. Prototype
 C. Iterative enhancement D. Waterfall
 - 2) _____ is the collection of computer programs, procedures and data.
 A Hardware B Software
 C Network D Engineering
 - 3) An SRS provides a reference for _____ of the final product.
 A Validation B Verification
 C Quality D Xerox copy
 - 4) _____ characteristic of SRS means the entire requirement denotes one interpretation.
 A Complete B Unambiguous
 C Reliable D Traceable
 - 5) Most common method for designing algorithm is _____.
 A Object refinement B Procedural refinement
 C Step wise refinement D All of them
 - 6) Which is not the level of Cohesion?
 A. Logical B. Physical
 C. Sequential D. Coincidental
 - 7) In static structure of a program the text of the program is in _____ organization.
 A. Structured B. Linear
 C. Static D. None
 - 8) The information hiding principle in modern programming languages by _____.
 A. data-hiding B. encapsulation
 C. data-abstraction D. inheritance
 - 9) _____ phase requires major efforts.
 A Testing B Coding
 C Requirement Analysis D Design
 - 10) _____ activity is used to understand the needs, goals and constraints.
 A. Design B. Design
 C. Testing D. Problem Analysis

Q-2 Tick (TRUE or FALSE) and Fill in the blanks.

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- 1) Requirement Analysis phase is required to understand the problem. [TRUE/FALSE]
- 2) _____ is the second step of design phase.
- 3) SQAP stands for System Quality Assurance Plan [TRUE/FALSE]
- 4) COCOMO stands for: _____.
- 5) Structured design methodology tries to reduce coupling. [TRUE/FALSE]
- 6) PDL stands for _____.
- 7) In programming style nesting means if-then-else. [TRUE/FALSE]
- 8) In structured design methodology the hierarchy of modules is represented by the _____.

Q-3 Give short answers of the following questions: (ANY TEN)

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- 1) What are the limitations of Waterfall model?
- 2) List down characteristics of software process.
- 3) Define: Software, Software Engineering.
- 4) Explain Projections.
- 5) What are the levels of Risk management?
- 6) Explain V & V technique for SQAP.
- 7) List the levels of Cohesion.
- 8) Define: Module and Modular System
- 9) Differentiate between System design and Detailed design
- 10) Write the goal of coding.
- 11) What do you mean by information hiding?
- 12) Which are the control constructs used in structured programming?

Q-4 Give Long answers of the following questions: (ANY FOUR)

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- 1) Explain coding and testing phases of software development.
- 2) Explain Spiral model.
- 3) What is SRS? Explain Characteristics of SRS.
- 4) Explain COCOMO Model.
- 5) Write a short note on Coupling.
- 6) Discuss the design objectives in detail with proper illustrations.
- 7) Explain coding approach and programming style.
- 8) What is testing? Explain levels of testing using diagram.

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