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SEAT NO: _____

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SARDAR PATEL UNIVERSITY
B. Sc. SEMESTER-VI EXAMINATION
COMPUTER SCIENCE

US06CCSC24: Software Engineering & Introduction to SASD

Date: 07/04/2022, Thursday

Time: 03:00pm to 05:00pm

Total Marks: 70

Q.1 Multiple choice of Question:

[10]

1. _____ is the second step of design phase.
A. Design Analysis B. System Design C. Black box D. Detail Design
2. _____ part requires major efforts.
A. Testing B. Maintenance C. Coding D. Design
3. COCOMO stands for _____.
A. Construction Cost Model B. Constructive Cost Model
C. Constructive Code Model D. Calculated Cost Model
4. _____ activity is used to understand the needs, goals and constraints.
A. Testing B. Requirement Specification C. Design D. Problem Analysis
5. The medium size projects are also known as _____ projects.
A. Organic B. Embedded C. Semidetached D. Run away
6. Which of the following is a tool in design phase?
A. Abstraction B. Refinement C. Information Hiding D. All of them
7. Which one is the key term used in design of a system?
A. Module B. Data C. Process D. None
8. _____ is verification technique for detail design.
A. Design walkthrough B. Critical design
C. Consistency checkers D. All of them
9. _____ is defined as the startup component on which the system operates.
A. output B. goal C. input D. process
10. Return on investment (ROI) = _____.
A. Net profit / total investment B. Net earnings / total investment
C. Total investment / Net earnings D. None

Q.2 Fillup the blanks or True/False.

[08]

1. _____ is the collection of computer programs, procedures and data.
2. _____ phase is required to understand the problem?
3. An SRS provides a reference for _____ of the final product.
4. A high quality SRS reduces the development _____.
5. In functional abstraction the module considered as Black box for detail design. [True / False]
6. Most common method for designing algorithm is Step wise refinement. [True / False]
7. One of the example of One time cost is Supply. [True / False]
8. System analysis is the collecting information of existing system of the problem. [True / False]



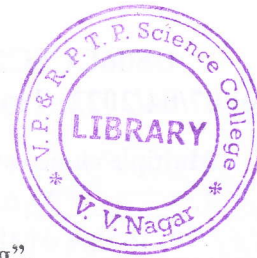
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(P.T.O.)

Q.3 Answer the following questions in SHORT (Any 10):

[20]

1. Define: Software Process.
2. Define: Software.
3. List down characteristics of software process.
4. Explain Partitioning.
5. What is Structured English?
6. What do you mean by "Automated Cross Referencing".
7. List the levels of Cohesion.
8. Differentiate between Functional and Object-oriented approaches.
9. Write the goal of coding.
10. What is technical feasibility?
11. List types of system.
12. Give examples of Natural and Artificial system



Q.4 Answer the following questions in LONG (Any 4):

[32]

1. Explain design, coding and testing phase of software development.
2. Explain error and effort distribution.
3. Explain COCOMO Model.
4. What you mean by SRS? Explain general characteristics of SRS.
5. What is detail design? Explain module specification techniques in detail.
6. What is testing? Explain levels of testing using diagram.
7. List system design specifications. Draw the diagram which shows the steps in system design of SDLC.
8. What is SDLC? Explain the Problem Identification step of SDLC.

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