SARDAR PATEL UNIVERSITY
M.Sc.INFO. & TECH.(INTEGRATED)EXAMINATION, Vth SEMESTER
Wednesday, 19th October, 2016
10:00 a.m. to 1:00 p.m.
PS05CIIT01[Software Engineering- I]

Maximum Marks: 70

Q-1 Multiple Choice Question.[Each Question carries one Mark]   **[10]**

1) _____ is the simplest and most widely used software development model.

   A) Spiral   B) Product Usability

   C) Iterative enhancement   D) Product Revision

2) _____ part requires major efforts.

   A) Testing   B)Maintenance

   C)Coding   D)Design

3) The coding should be follow rules of _____.

   A) Structure Programming   B) UML

   C) Integrated Programming   D) OOPs

4) The Gantt chart is used for _____ method to display activities.

   A) Earn value method   B) Review

   C) UDF   D) SRS

5) Bang metric is used to quantify the _____of the project.

   A) Size   B) Time

   C) Functions   D) Needs

6) An SRS establishes the basis for agreement between the _____ and the
   _____.

   A) User & Product   B) Client & Supplier

   C) Product & Quality   D) Developers & Project

7) Most common method for designing algorithm is _____.

   A) Object refinement   B) Procedural refinement

   C) Step wise refinement   D) All of them

8) Which is not the level of Cohesion?

   A) Logical   B) Physical

   C) Sequential   D) Coincidental

9) Structured programming is often called _____ programming

   A) goto-less   B) object oriented
   C) procedural   D) None of these

10) Which static method is used for verify the programs?

   A) Review   B) Automated cross checking
   C) Code reading   D) None of these

(P.T.O.)

Q-2 Give Answers for the following:(Any ten) [20]

1. Define: Software Engineering, Software Process.
2. Write a short note on maintenance phase.
3. What are the limitations of Waterfall model?
4. Justify the following.
   "Now a day a more importance is given to SRS instead of design and coding."
5. Write a short note on Cost schedule - Milestone Graph.
6. Explain V & V technique for SQAP.
7. Define: Coupling and Cohesion.
8. List the names of verification techniques for System and Detailed design.
9. Explain in brief Design walkthrough.
10. Write the goal of coding.
11. List at least 4 general rules of programming style.
12. What do you mean by code reading?

Q-3 A) List characteristics of software process and explain any two in detail. [5]
     B) Explain Prototype model. [5]

OR

Q-3 A) List phases of software development and explain any one in detail. [5]
     B) Explain Iterative enhancement model. [5]

Q-4 Explain SRS in detail with characteristics. [10]

OR

Q-4 Explain COCOMO Model in detail. [10]

Q-5 A) Discuss the basic principles of design in detail. [5]
     B) Explain data abstraction module specification. [5]

OR

Q-5 A) Write a short note on Cohesion in detail. [5]
     B) Explain the verification techniques for Detailed Design. [5]

Q-6 A) List out the testing fundamentals, and explain any one of them. [5]
     B) Explain the concept of information hiding in structured programming. [5]

OR

Q-6 A) Define the following terms: Error, Fault and Failure. [5]
     B) Explain the levels of testing. [5]

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