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SARDAR PATELUNIVERSITY
BCA EXAMINATION, Vth SEMESTER
Friday, 15th November, 2019
10:00 a.m. to 1:00 p.m.
US05CBCA03[Software Engineering] **Maximum Marks: 70**

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

1) _____ is the second step of design phase.
   A) Design Analysis B) System Design
   C) Black box D) Detail Design

2) Efficiency and Reliability are measured on which dimension of Quality control.
   A) Product Transition B) Product Usability
   C) Product Operation D) Product Revision

3) _____ is the simplest and most widely used software development model.
   A) Spiral B) Prototype
   C) Iterative enhancement D) Waterfall

4) KDLOC means _____
   A) Kilogram Developed Line of Code B) Kilogram Delivered Local Code
   C) Thousands Delivered Local Code D) Thousands Delivered Line of Code

5) The medium size projects are also known as _____ projects.
   A) Organic B) Embedded
   C) Semidetached D) Run away

6) The Gantt chart is used for _____ method to display activities.
   A) Earn value method B) Review
   C) UDF D) SRS

7) Which one is the key term used in design of a system?
   A) Module B) Data
   C) Process D) None

8) In functional abstraction the module considered as _____ for detail design.
   A) White box B) Black box
   C) Compiled box D) None

9) A failure is produced only when there is a _____ in the system.
   A) error B) bug
   C) fault D) problem

10) In structured design methodology the hierarchy of modules is represented by the _____.
   A) flow chart B) PERT chart
   C) Gant chart D) structure chart

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

1 Write a short note on maintenance phase.

2 Define: Software, Software Engineering

3 What are the limitations of Waterfall model?

4 Justify "A high quality SRS is prerequisite to high quality software".

5 Explain Partitioning.

6 Explain V & V technique for SQAP.

7 Define: Module and Modular System.

8 List the levels of Cohesion.

9 Differentiate between Functional and Object-oriented approaches.

10 What do you mean by code reading?

11 List general rules of programming style(any three).

12 Write the goal of coding.

Q-3 A) Explain any two characteristics of software process of software engineering. [5]

B) Explain Prototype model. [5]

OR

Q-3 A) Which factors are effects on quality of software? [5]

B) Explain Iterative enhancement model. [5]

Q-4 What is SRS? Explain any two characteristics of SRS. [10]

OR

Q-4 Explain COCOMO model in detail with example. [10]

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) Discuss any one basic principles of design in detail. [5]

B) Explain data abstraction module specification. [5]

Q-6 A) Explain the levels of testing. [5]

B) Explain the concept of information hiding in structured programming. [5]

OR

Q-6 A) Differentiate between Functional testing and Structural testing. [5]

B) Explain the Top-Down and Bottom-Up approach in coding. [5]

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