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SARDAR PATEL UNIVERSITY
EXTERNAL EXAMINATION
B.C.A. – 5th Semester
Subject: Software Engineering (US05CBCA03)

Date: 21-11-2013 **Time:** 10:30 AM to 01.30 PM **Total Marks:** 70

Q-1 Select the correct answer for the followings: **[10]**

I. _____ Phase is requires to understand the problem.
(a) System Design (b) Coding
(c) Requirement Analysis (d) Testing

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

III. _____ Characteristic of SRS means the entire requirement denotes one interpretation.
(a) Complete
(b) Reliability
(c) Unambiguous
(d) Traceable

IV. Bang metric is used to quantify the _____ of the project.
(a) size
(b) time
(c) functions
(d) needs

V. _____ is NOT a component of Object oriented software engineering.
(a) Process
(b) Architecture
(c) Method
(c) None of these

VI. Most common method for designing algorithm is _____.
(a) object refinement
(b) procedural refinement
(c) step wise refinement
(d) all of them

VII. Structured programming is often called _____ programming.
(a) go to-less (b) object oriented
(c) procedural (d) none of these

VIII. When _____ type of variables is changed then some side effects are occurs.
(a) static (b) dynamic
(c) global (d) none of these

IX. The information hiding principle in modern programming languages by _____.
(a) data-hiding
(b) encapsulation
(c) data-abstraction
(d) inheritance

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

Cont...

Q-2 **Write answers for the followings: (*ANY Ten*)** **[20]**

1. Define Software, Software Engineering.
2. Explain error and effort distribution.
3. Write a short note on product transition to maintain quality.
4. Explain role of SRS.
5. Explain Single variable model for cost estimation.
6. Write a short note on cost schedule - milestone graph.
7. Differentiate between system design and detailed design.
8. Differentiate between functional and object - oriented approaches.
9. Explain in brief design walkthrough.
10. Define Fault, Failure.
11. How the internal documentation helps?
12. Write the goal of coding.

Q-3 [A] Explain waterfall model in detail. [6]
[B] Explain phases of software development. [4]

OR

Q-3 [A] Explain characteristics of software process. [6]
[B] Explain prototype model. [4]

Q-4 [A] What is SRS? Explain characteristics, needs and components of SRS. [10]

OR

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

Q-5 [A] Write a short note on cohesion. [6]
[B] Write a short note on PDL. [4]

OR

Q-5 [A] Explain the verification techniques for detailed design. [6]
[B] Write a short note on coupling. [4]

Q-6 [A] Explain the structured programming used in coding. [6]
[B] Differentiate between Functional testing and Structural testing. [4]

OR

Q-6 [A] Explain the levels of testing. [6]
[B] Explain the concept of information hiding in structured programming. [4]

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