

(76 & A-50)

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SARDAR PATEL UNIVERSITY
BCA (SEM-5) External Examination
Friday, 18 November 2016
US05CBCA03- Software Engineering

Time: 02:00 PM to 05:00PM

Marks: 70

Q.1 Select appropriate Option

[10]

1. The coding should be follow rules of _____
A. Design Analysis C. System Design
B. Black Box D. Detail Design
2. _____ is the simplest and most widely used software development model.
A. Spiral B. Prototype
C. Iterative enhancement D. Waterfall
3. Partitioning, abstraction and projection are used for _____
A. Data Analysis B. Structuring Information
C. SDLC D. DFD
4. Bang metric is used to quantify the _____ of the project
A. Size B. Time
C. Functions D. Needs
5. PDL stands for _____
A. A Process Define Language B. Prefer Define Language
C. Procedure Design Language D. Process Design Language
6. Which of the following is a tool in design phase?
A. Abstraction B. Refinement
C. Information Hiding D. Information Hiding
7. In programming style nesting means.
A. Switch B. If-then-else
C. nested function D. Nested for loop
8. Comments for a module are often called _____ for the module.
A. Prologue B. Message
C. Information D. None of these
9. Efficiency and Reliability are measured on which dimension of Quality control.
A. Product Transition B. Product Usability
C. Product Operation D. Product Revision
10. COCOMO stands for:
A. Construction Cost Model B. Constructive Cost Model
C. Constructive Code Model D. Calculated Cost Model

(1)

(P.T.O)

- Q.2 Answer the following [Any Ten] [20]**
1. Software Process and Software Project.
 2. Explain Error and Effort Distribution.
 3. Explain Advantages of Spiral Model.
 4. Justify the following..
"A high quality SRS is prerequisite to high quality software"
 5. Explain Partitioning.
 6. What is Structured English?
 7. Define Coupling and Cohesion.
 8. Explain in brief Design walkthrough.
 9. List the levels of Cohesion.
 10. Write the goal of coding.
 11. What do you mean by information hiding?
 12. List at least 4 general rules of programming style.
- Q.3 [A] Explain Characteristics of Software Process. [06]**
[B] Explain Prototype Model in brief. [04]
- OR**
- Q.3 [A] Write a Note on Waterfall Model. [06]**
[B] Explain design, coding and testing phase of software development in brief. [04]
- Q.4 [A] What is SRS? Explain characteristics, needs and Components of SRS. [10]**
- OR**
- Q.4 [A] Write a Note on COCOMO Model. [10]**
- Q.5 [A] What is design specification? Explain factors of it. [06]**
[B] What is Module Specification? [04]
- OR**
- Q.5 [A] Explain the verification techniques for Detailed Design. [06]**
[B] Write a short note on PDL. [04]
- Q.6 [A] Explain Level of Testing. [06]**
[B] Define Error, Fault and Failure in brief. [04]
- OR**
- Q.6 [A] Explain Top-Down and Bottom-up Approach in coding. [06]**
[B] What do you mean by the internal coding in documentation? Explain it (internal documentation). [04]

— X —
 (2)