

[47]

SEAT No. \_\_\_\_\_

No. of Printed Pages : 02

SC

**SARDAR PATEL UNIVERSITY**  
**BCA EXAMINATION, V<sup>th</sup> SEMESTER**

**Tuesday, 9<sup>th</sup> April, 2019**

**2:00 p.m. to 5:00 p.m.**

**US05CBCA03[Software Engineering] 09/04/19**

**Maximum Marks: 70**

- Q-1 Multiple Choice Question.[Each Question carries one Mark] [10]
- 1) \_\_\_\_\_ part requires major efforts.  
A) Testing  
B) Maintenance  
C) Coding  
D) Design
  - 2) The coding should be follow rules of \_\_\_\_\_.  
A) Structure Programming  
B) UML  
C) Integrated Programming  
D) OOPs
  - 3) \_\_\_\_\_ model provides better risk management and cost of each phase.  
A) Spiral  
B) Prototype  
C) Iterative enhancement  
D) Waterfall
  - 4) A high quality SRS reduces the development \_\_\_\_\_.  
A) Time  
B) Customer requirements  
C) Cost  
D) Quality
  - 5) \_\_\_\_\_ is the formal language used to specify the requirements.  
A) English  
B) UDF  
C) Structured English  
D) Expressions
  - 6) \_\_\_\_\_ is the method to identify the Risk.  
A) Risk Identification  
B) Risk Analysis  
C) Risk Assessment  
D) Risk Control
  - 7) Number of subordinates associated with given module is known as \_\_\_\_\_.  
A) Fan-out  
B) Fan-in  
C) Dependency  
D) Module
  - 8) In functional abstraction the module considered as \_\_\_\_\_ for detail design.  
A) White box  
B) Black box  
C) Compiled box  
D) None
  - 9) Which static method is used for verify the programs?  
A) Review  
B) Automated cross checking  
C) Code reading  
D) None of these
  - 10) The program verification methods fall in which categories?  
A) Static  
B) Dynamic  
C) Static and Dynamic  
D) Structured

(PTO)

- Q-2 Give Answers for the following:(Any ten) [20]
- 1 Write a short note on requirement analysis phase.
  - 2 Explain advantages of spiral model.
  - 3 List down characteristics of software process.
  - 4 Justify the following.  
“Now a day a more importance is given to SRS instead of design and coding.”
  - 5 What do you mean by “Automated Cross Referencing”.
  - 6 Write a short note on Earned Value method.
  - 7 Explain in brief Design walkthrough.
  - 8 List the levels of Cohesion.
  - 9 List the names of verification techniques for System and Detailed design.
  - 10 What do you mean by information hiding?
  - 11 List general rules of programming style(any three).
  - 12 Define : Error, fault.
- Q-3 Explain waterfall model in detail. [10]
- OR
- Q-3 Explain phases of software development( any three). [10]
- Q-4 A) What is SRS? Explain any one characteristics of SRS. [5]  
B) Explain validation process of SRS. [5]
- OR
- Q-4 A) Explain any one Components of SRS. [5]  
B) Explain COCOMO model in short. [5]
- Q-5 A) What is Coupling explain types of coupling in detail. [5]  
B) Discuss any one basic principles of design in detail. [5]
- OR
- Q-5 A) What is design specification? Explain factors of it. [5]  
B) Explain the verification techniques for Detailed Design. [5]
- Q-6 A) Explain the Top-Down and Bottom-Up approach in coding. [5]  
B) What is verification process in coding phase and explain Code reading method. [5]
- OR
- Q-6 A) Explain the concept of information hiding in structured programming. [5]  
B) Explain the levels of testing. [5]