

SEAT No. \_\_\_\_\_  
(65 & A-22)

SARDAR PATEL UNIVERSITY  
B.C.A. Semester-5 Examination, 2018  
US05CBCA03 : Software Engineering  
7th April, 2018, Saturday

SC  
No. of Printed Pages : 2

Time : 2.00 p.m. – 5.00 p.m.

Marks: 70

Q-1 Select the appropriate option for following questions: 10

- 1 Which phase is requires to understand the problem?  
A System Design B Coding  
C Requirement Analysis D Testing
- 2 \_\_\_\_\_ model provides better risk management and cost of each phase.  
A Spiral B Prototype  
C Iterative enhancement D Waterfall
- 3 \_\_\_\_\_ is the formal language used to specify the requirements.  
A English B UDF  
C Structured English D Expressions
- 4 \_\_\_\_\_ is the method to identify the Risk  
A Risk Identification B Risk Analysis  
C Risk Assessment D Risk Control
- 5 PDL stands for \_\_\_\_\_.  
A Process Define Language B Prefer Define Language  
C Procedure Design Language D Process Design Language
- 6 Which is not the level of Cohesion?  
A Logical B Physical  
C Sequential D Coincidental
- 7 The single-entry, single-exit constructs are also called \_\_\_\_\_.  
A. control constructs B. iteration constructs  
C. selection constructs D. None of these
- 8 In structured design methodology the hierarchy of modules is represented by the \_\_\_\_\_.  
A flow chart B PERT chart  
C Gant chart D structure chart
- 9 \_\_\_\_\_ is the collection of computer programs, procedures and data.  
A Hardware B Software  
C Network D Engineering
- 10 COCOMO stands for: \_\_\_\_\_.

(1)

(P.T.O.)

- A Construction Cost Model                      B Constructive Cost Model  
 C Constructive Code Model                      D Calculated Cost Model

**Q-2** Give short answers of the following questions: (ANY TEN) 20

- 1) Write a short note on requirement analysis phase.
- 2) Write a short note on maintenance phase.
- 3) Write a short note on Product transition to maintain quality.
- 4) Explain Partitioning.
- 5) What do you mean by "Automated Cross Referencing".
- 6) Explain V & V technique for SQAP.
- 7) Explain in brief Design walkthrough.
- 8) Define: Coupling and Cohesion.
- 9) List the names of verification techniques for System and Detailed design.
- 10) List at least 6 general rules of programming style.
- 11) Draw the diagram of levels of testing.
- 12) Define Error, fault, failure (any two).

**Q-3** A Explain design and testing phase of software development. 4  
 B Explain waterfall model. 6

OR

**Q-3** A Explain iterative enhancement model. 4  
 B Explain characteristics of software process. 6

**Q-4** A Explain COCOMO Model. 7  
 B Explain needs of SRS. 3

OR

**Q-4** A What you mean by SRS? Explain Components of SRS. 6  
 B Explain general characteristics of SRS. 4

**Q-5** A Write a short note on Coupling. 5  
 B Write a short note on PDL. 5

OR

**Q-5** A Write a brief note on Structured design. 6  
 B Explain data abstraction module specification. 4

**Q-6** What is testing? Explain levels of testing using diagram. 10

OR

**Q-6** Explain coding approach and programming style. 10