

[145/A30]

SARDAR PATEL UNIVERSITY
B.C.A. Semester-5 Examination,
US05CBCA03 : Software Engineering
Thursday, 25th October, 2018.

Time : 2.00 p.m. – 5.00 p.m.

Marks: 70

Q-1

Select the appropriate options for following questions:

10

- 1 _____ is the simplest and most widely used software development model.
A Spiral B Prototype
C Iterative enhancement D Waterfall
- 2 Which phase is required to understand the problem?
A System Design B Coding
C Requirement Analysis D Testing
- 3 A high quality SRS reduces the development _____.
A Time B Customer requirements
C Cost D Quality
- 4 (SQAP) means _____.
A Software Quality Assurance Plan B System Quality Appearance Plans
C Software Quick Activity Plans D System Quantity Assurance Process
- 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 In structured design methodology the hierarchy of modules is represented by the _____.
A flow chart B PERT chart
C Gant chart D structure chart
- 8 A failure is produced only when there is a _____ in the system.
A. error B. bug
C. fault D. problem
- 9 _____ part requires major efforts.
A Testing B Maintenance
C Coding D Design
- 10 COCOMO stands for:
A Construction Cost Model B Constructive Cost Model

(1)

(PTO)

- Q-2 Give short answers of the following questions: (ANY TEN) 20**
- 1) List down characteristics of software process.
 - 2) Explain error distribution.
 - 3) Explain advantages of spiral model.
 - 4) Explain Partitioning.
 - 5) What is Structured English?
 - 6) What do you mean by "Automated Cross Referencing".
 - 7) Define: Coupling and Cohesion.
 - 8) Differentiate between System design and Detailed design.
 - 9) List the names of verification techniques for System and Detailed design.
 - 10) Write the goal of coding.
 - 11) Draw the diagram of levels of testing.
 - 12) What do you mean by information hiding?
- Q-3 Explain Waterfall model with its advantages and limitations. 10**
- OR**
- Q-3 Explain all phases of software development in detail. 10**
- Q-4 A What you mean by SRS? Explain Components of SRS. 6**
- B What is SRS? Explain needs of SRS. 4**
- OR**
- Q-4 A Explain SQAP. 6**
- B Explain general characteristics of SRS. 4**
- Q-5 A Write a short note on Logic/Algorithm design. 5**
- B Explain data abstraction module specification. 5**
- OR**
- Q-5 A Discuss the design objectives in detail with proper illustrations. 6**
- B Write a short note on Coupling. 4**
- Q-6 A Explain the structured programming used in coding. 5**
- B Explain the levels of testing. 5**
- OR**
- Q-6 A Explain the concept of information hiding in structured programming. 5**
- B Explain the Top-Down and Bottom-Up approach in testing phase. 5**