

B.Sc.(IT) Semester - 3 (CBCS) Examination**Oct/Nov. -2019 (Old Course)****CS-13 SAD SOFTWARE QUALITY ASSURANCE AND TESTING (CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Q-1 (A) Answer followings: (04)
- (1) Full form of SDLC.
 - (2) What is system?
 - (3) What is Sub System?
 - (4) For External Entity in DFD _____ symbol is used.
- (B) Answer the following: (Any one) (02)
- (1) Explain the term Feasibility Study.
 - (2) Explain the term Quality Assurance.
- (C) Answer the following: (Any one) (03)
- (1) Explain the term Data Dictionary.
 - (2) Explain the term Software Engineering.
- (D) Answer the following: (Any one) (05)
- (1) Explain the difference between QA & QC.
 - (2) Explain Data Flow Diagram with example in detail.
- Q-2 (A) Answer followings: (04)
- (1) What do you mean by Error?
 - (2) Give the definition of Testing.
 - (3) What do you mean by Defect?
 - (4) In Black Box testing of any software _____ knowledge is not required.
- (B) Answer the following: (Any one) (02)
- (1) Explain Acceptance testing.
 - (2) Explain Unit testing in detail.
- (C) Answer the following: (Any one) (03)
- (1) Explain dynamic testing in detail.
 - (2) Explain System testing.
- (D) Answer the following: (Any one) (05)
- (1) Explain non functional testing.
 - (2) Explain Black box & White box testing.
- Q-3 (A) Answer followings: (04)
- (1) Big bang model is use to develop _____ kind of software.
 - (2) Define the main Problem of Waterfall model.
 - (3) In _____ term you can use and distribute the software free.
 - (4) Full form of QTP.
- (B) Answer the following: (Any one) (02)
- (1) Explain the term Shareware.
 - (2) Explain the term Freeware.

- (C) Answer the following: (Any one) (03)
- (1) Explain V model in detail.
 - (2) Explain QTP & Rational in detail.
- (D) Answer the following: (Any one) (05)
- (1) Explain Spiral model in detail.
 - (2) Explain Prototype model in detail.
- Q-4 (A) Answer followings: (04)
- (1) What is meaning of Pessimistic time?
 - (2) What is Optimistic time?
 - (3) Full form of CPM is _____.
 - (4) COCOMO model is used for _____.
- (B) Answer the following: (Any one) (02)
- (1) Define the term:- Project Management.
 - (2) Explain Work Break Down structure in detail.
- (C) Answer the following: (Any one) (03)
- (1) Explain Critical Path Method in detail.
 - (2) Explain LOC and FP in Project Estimation techniques.
- (D) Answer the following: (Any one) (05)
- (1) Explain COCOMO model in detail.
 - (2) Explain PERT chart in detail.
- Q-5 (A) Answer followings: (04)
- (1) Full form of MPP _____.
 - (2) Full form of CAD _____.
 - (3) Full form of VSD _____.
 - (4) MS – Visio software is used for _____.
- (B) Answer the following: (Any one) (02)
- (1) Give the definition of UML.
 - (2) Explain Class Diagram with example.
- (C) Answer the following: (Any one) (03)
- (1) Explain Sequence Diagram.
 - (2) Explain Interaction Diagram.
- (D) Answer the following: (Any one) (05)
- (1) Explain the Goals of UML in detail.
 - (2) Write a note on MS-Project.
