B. C. A. (Sem. III) (CBCS) Examination

January - 2021

CS-13 : SAD, Software Quality Assurance & Testing

Faculty Code : 003
Subject Code : 2033001

Time : $2\frac{1}{2}$ Hours]   [Total Marks : 70

Instruction : Attempt any **five** questions.

1	(a)	Objective type questions :	**4**
		(1) What is System?	
		(2) After the design phase the document prepared is known as.................	
		(3) Decision Table is made up of which four sections?	
		(4) In a DFD external entities are represented by a _____ .	
	(b)	What is Decision Tree?	**2**
	(c)	Explain Role of System Analyst.	**3**
	(d)	Explain SDLC.	**5**
2	(a)	Objective type questions :	**4**
		(1) SDLC stands for _____.	
		(2) Enhancements, upgrades and bug fixes are done during the _____ step in the SDLC.	
		(3) Data dictionary contains detail of _____.	
		(4) What is Information System?	
	(b)	Define Software Engineering.	**2**
	(c)	Explain QA Activities.	**3**
	(d)	Explain Fact-finding techniques.	**5**

3 (a) Objective type questions: 4
       (1) What is Performance Testing?
       (2) What is Stress Testing?
       (3) What is Load Testing?
       (4) What is Security Testing ?

   (b) What is Usability Testing?   2

   (c) Explain White Box Testing.   3

   (d) Explain Test Levels.   5

4 (a) Objective type questions :   4
       (1) What is Bug?
       (2) What is Error?
       (3) BVA stands for _____.
       (4) What is Fault?

   (b) What is Dynamic Testing?   2

   (c) Explain Black Box testing.   3

   (d) Explain Static Testing.   5

5 (a) Objective type questions :   4
       (1) Iterative Development Model is also known
            as _____.
       (2) A step in waterfall model that involves a meeting
            with the customer to understand the requirements.
       (3) Give Concept of Freeware.
       (4) Spiral Model was proposed by _____.

   (b) What is QTP?   2

   (c) Explain V-Model.   3

   (d) Explain Iterative Model.   5

6 (a) Objective type questions : 4
   (1) Full form of QTP.
   (2) Maintenance is the final phase in waterfall model. (True/False)
   (3) Which model is also known as Verification and validation model?
   (4) When customer does not specify requirements clearly, which model is used?

   (b) What is Win runner ? 2

   (c) Explain Big Bang Model. 3

   (d) Explain Waterfall Model. 5

7 (a) Objective type questions : 4
   (1) CPM stands for _____
   (2) _____ is a project scheduling method that can be applied to software development.
   (3) A horizontal bar chart that shows project tasks against a calendar is called _____.
   (4) Monitoring is a NOT part of project management. (True/False)

   (b) What is Pert Chart? 2

   (c) Explain Graphical Reporting Tools. 3

   (d) Explain Task Network and Scheduling Methods. 5

8 (a) Objective type questions : 4
   (1) A project usually has a timeline chart which was developed by _____.
   (2) Heuristic Techniques uses _____.
   (3) CPI stands for _____.
   (4) Give three levels of COCOMO Model.

   (b) What is Project Management? 2

   (c) Explain Algorithms Methods. 3

   (d) Explain Timeline Chart. 5

9 (a) Objective type questions :   **4**
- (1) CAD stands for _____.
- (2) UML was created by _____.
- (3) The feature that defines different actions for the same operation is called....
- (4) What are two main components of Use Case Diagram?

(b) What is MS-Project?   **2**

(c) Explain UML class diagram.   **3**

(d) Explain Activity Diagram with example.   **5**

10 (a) Objective type questions :   **4**
- (1) UML stands for _____
- (2) What is an extension of Visio Drawing File?
- (3) In UML, _____ diagrams model static data structures.
- (4) The feature that hide object details is _____.

(b) What is MS-VISIO?   **2**

(c) Explain MS-Project for controlling and Project Management.   **3**

(d) Explain Use Case Diagram with example.   **5**

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