



Seat No. \_\_\_\_\_

**HAJ-003-2043001**

**B. Sc. I. T. (WEF-2019) Examination**

**May - 2023**

**CS-13 : Software Quality Assurance and Testing**

**Faculty Code : 003**

**Subject Code : 2043001**

Time :  $2\frac{1}{2}$  Hours / Total Marks : **70**

<b>1</b>	<b>(a)</b>	Objective type questions:	<b>4</b>
	(1)	What is QC ?	
	(2)	What is Decision Tree?	
	(3)	What is Data Dictionary ?	
	(4)	What is Business System?	
	<b>(b)</b>	Attempt the following : (any 1 out of 2)	<b>2</b>
	(1)	What is Information System ?	
	(2)	Explain Decision Table.	
	<b>(c)</b>	Attempt the following : (any 1 out of 2)	<b>3</b>
	(1)	Explain Observation Technique.	
	(2)	Explain SDLC.	
	<b>(d)</b>	Attempt the following : (any 1 out of 2)	<b>5</b>
	(1)	Deplain DFD with its levels.	
	(2)	Write a note on QAA.	
<b>2</b>	<b>(a)</b>	Objective type questions :	<b>4</b>
	(1)	What is Unit Testing ?	
	(2)	What is Integration Testing ?	
	(3)	What is System Testing ?	
	(4)	What is Acceptance Testing ?	

(b) Attempt the following : (any 1 out of 2) 2  
 (1) What is Bug and Error ?  
 (2) Define Load Testing.

(c) Attempt the following : (any 1 out of 2) 3  
 (1) Explain Static Testing.  
 (2) Explain Grey Box Testing.

(d) Attempt the following : 5  
 (1) Explain Black Box Testing.  
 (2) Write a note on Testing Atrifacts.

**3** (a) Objective type questiosn : 4  
 (1) In waterfall model, output of one phase is input to next phase. True or false.  
 (2) Regression testing is a major part of which of the life cycle model ?  
 (3) In a college, students are asked to develop a software. Which model would be preferable?  
 (4) Validation is responsibility of \_\_\_\_\_

(b) Attempt the following :(any 1 out of 2) 2  
 (1) What is Rational Suit ?  
 (2) Define QTP.

(c) Attempt the following : (any 1 out of 2) 3  
 (1) Explain waterfall model.  
 (2) Explain Big Bang Model.

(d) Attempt the following : (any 1 out of 2) 5  
 (1) Explain Spiral Model.  
 (2) Explain Freeware, Shareware and licensed tools.

**4** (a) Objective type questions : 4  
 (1) What is the responsibility of the project manager?  
 (2) Which five dimensions that must be managed on a project?  
 (3) In the initial stage of the project the probability of completing the project is \_\_\_\_\_.  
 (4) The entire process of a project may be considered to be made up on number of sub process placed in different stages called the \_\_\_\_\_.

(b) Attempt the following : (any 1 out of 2) **2**  
(1) What is Algorithmic method ?  
(2) Define Project scheduling and tracking.

(c) Attempt the following : (any 1 out of 2) **3**  
(1) Explain Time Line Chart.  
(2) Explain Pert Chart.

(d) Attempt the following : (any 1 out of 2) **5**  
(1) Explain Graphic Reporting Tools.  
(2) Explain Effort Estimation Techniques.

**5** (a) Objective type questions : **4**  
(1) How we can import data to shapes in your drawing in Visio ?  
(2) \_\_\_\_\_ Visio options enable you to make a freeform selection.  
(3) \_\_\_\_\_ of the standard options when applying fill to a Visio shape ?  
(4) How to create PowerPoint Slides from a Visio drawing ?

(b) Attempt the following : (any 1 out of 2) **2**  
(1) When a shape is rotated in Visio, what does it rotate around ?  
(2) Give suitable example of Activity Diagram.

(c) Attempt the following : (any 1 out of 2) **3**  
(1) Explain Class Diagram.  
(2) Explain MS-Project for controlling and Project Management.

(d) Attempt the following : (any 1 out of 2) **5**  
(1) Explain MS VISIO designing concept.  
(2) Explain Use Case Diagram with suitable example.

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