



Seat No. _____

HAI-003-2043001

B. Sc. I. T. (WET-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

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

- (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 Artifacts.
- 3** (a) Objective type questions : 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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