



**DCT-003-1043001**

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

**B. Sc. I.T. (Sem. III) Examination**

**August - 2022**

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

**(Old Course)**

**Faculty Code : 003**

**Subject Code : 1043001**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

**Instruction** : Attempt any **five** questions.

- 1 (a) Answer the following : 4
- (1) SDCL Stands For?
  - (2) \_\_\_\_\_ is An Important Factor of Management Information System.
  - (3) In a DFD external entities are represented by \_\_\_\_\_
  - (4) Full form of DFD is \_\_\_\_\_.
- (b) Answer in brief : 2
- What is software engineering?
- (c) Answer in brief : 3
- Explain fact finding techniques.
- (d) Answer in brief : 5
- Explain SDLC.
- 2 (a) Answer the following : 4
- (1) What is System?
  - (2) What is Sub System?
  - (3) What is Business System?
  - (4) What is Information System?
- (b) Answer in brief : 2
- Who is system analyst?

- (c) Answer in brief : 3  
 Explain data dictionary.
- (d) Answer in brief : 5  
 What is quality assurance? Explain quality assurance activities.
- 3** (a) Answer the following : 4  
 (1) What is bug?  
 (2) What is defect?  
 (3) What is a fault?  
 (4) Explain usability testing.
- (b) Answer in brief : 2  
 Explain test script.
- (c) Answer in brief : 3  
 Explain grey box testing.
- (d) Answer in brief : 5  
 Explain white box testing.
- 4** (a) Answer the following : 4  
 (1) What is Test Case?  
 (2) What is Test Script?  
 (3) What is Test Plan?  
 (4) What is Test Harness?
- (b) Answer in brief : 2  
 Explain software failures.
- (c) Answer in brief : 3  
 Explain performance and load testing.
- (d) Answer in brief : 5  
 Explain static software testing.
- 5** (a) Answer the following : 4  
 (1) Spiral model was proposed by \_\_\_\_\_ .  
 (2) The iterative model also known as \_\_\_\_\_ .  
 (3) The waterfall model also known as \_\_\_\_\_ .  
 (4) What is Risk Analysis?

- (b) Answer in brief : 2  
Spiral model was developed by \_\_\_\_\_.
- (c) Answer in brief : 3  
Explain big bang model.
- (d) Answer in brief : 5  
Explain spiral model with diagram.
- 6** (a) Answer the following : 4  
 (1) Who invented LoadRunner?  
 (2) Who invented WinRunner?  
 (3) QTP stands for?  
 (4) Explain Freeware.
- (b) Answer in brief : 2  
Explain freeware software.
- (c) Answer in brief : 3  
Explain licensed tools.
- (d) Answer in brief : 5  
Explain win runner automated testing tool.
- 7** (a) Answer the following : 4  
 (1) Explain project planning.  
 (2) Explain Project.  
 (3) Full form of COCOMO is \_\_\_\_\_.  
 (4) What is COCOMO?
- (b) Answer in brief : 2  
Explain empirical techniques.
- (c) Answer in brief : 3  
Explain the concept of project management.
- (d) Answer in brief : 5  
Explain decomposition techniques.

- 8 (a) Answer the following : 4  
 (1) What is PERT Chart?  
 (2) What us TimeLine Chart?  
 (3) Explain Tracking.  
 (4) Explain Reporting.
- (b) Answer in brief : 2  
 Explain earned value analysis.
- (c) Answer in brief : 3  
 Explain task network.
- (d) Answer in brief : 5  
 Explain Burn chart.
- 9 (a) Answer the following : 4  
 (1) Full form of CAD.  
 (2) Use case diagram also known as \_\_\_\_\_ .  
 (3) UML was created by \_\_\_\_\_ .  
 (4) Full form of UML is \_\_\_\_\_ .
- (b) Answer in brief : 2  
 What is Associations?
- (c) Answer in brief : 3  
 Explain class diagram.
- (d) Answer in brief : 5  
 Explain Use Case diagram with example.
- 10 (a) Answer the following : 4  
 (1) What is a Diagram?  
 (2) Full Form of UML.  
 (3) What is MS-VISIO?  
 (4) What is MS-Project?
- (b) Answer in brief : 2  
 Explain dependency.
- (c) Answer in brief : 3  
 Explain the MS -VISIO with three editions.
- (d) Answer in brief : 5  
 Explain MS-Project controlling and management.