Seat No. _____

HAJ-003-1033001

B. C. A. (Sem.-III) (CBCS) (WEF-2016) Examination

May - 2023

CS-13 : SAD, Software Quality Assurance & Testing

Faculty Code : 003
Subject Code : 1033001

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

1 (a) Objective type questions :   **4**
     (1) What is Business system ?
     (2) Information engineering is _____ phase in SDLC.
     (3) SDLC stands for _____.
     (4) QAA stands for _____

     (b) Attempt any **one** out of two :   **2**
     (1) What is Quality ? Explain factors affedting quality in detail.
     (2) Explain role of system analyst.

     (c) Attempt any **one** out of two :   **3**
     (1) Explain characteristics of system.
     (2) Give difference between QA and QC.

     (d) Attempt any **one** out of two :   **5**
     (1) What is system ? Explain SDLC in detail.
     (2) What is decision table ? Explain with its types.

2 (a) Objective type questions :   **4**
     (1) Failure is affected then software stop working. (True or false)
     (2) Define bug and fault.
     (3) Alpha testing comes under _____ testing.
     (4) Static Testing contain inspection and walkthrough. (True or false)

(b) Attempt any **one** out of two: **2**
    (1) What is Software fault and failure ?
    (2) Define Verification and Validation.

(c) Attempt any **one** out of two :   **3**
    (1) Explain test case and test script in detail.
    (2) Explain level of testing.

(d) Attempt any **one** out of two :   **5**
    (1) What is software testing ? Explain testing artifacts in detail.
    (2) Explain Black Box testing in detail.

3 (a) Objective type questions :   **4**
    (1) Which model is suitable for small project ?
    (2) Waterfall model is also known as _____
    (3) QTP stands for _____
    (4) What is software piracy ?

(b) Attempt any **one** out of two :   **2**
    (1) Define freeware and license tool.
    (2) Explain waterfall model.

(c) Attempt any **one** out of two :   **3**
    (1) Explain Spiral model.
    (2) Explain Rational suite in detail.

(d) Attempt any **one** out of two :   **5**
    (1) Explain V-Model in detail.
    (2) What is Load Runner ? Explain testing process of Load runner.

4 (a) Objective type questions :   **4**
    (1) Project size is considered based on _____.
    (2) Project Management include planning, controlling, Monitoring. (True or False)
    (3) CPM stands for _____
    (4) Milestone can be found in _____ chart.

(b) Attempt any **one** out of two :   **2**
    (1) Write a note on decomposition technque.
    (2) Write a note on effort estimation techniques.

(c) Attempt any **one** out of two : 3
    (1) Explain COCOMO model.
    (2) What is scheduling ? Explain time line chart.

(d) Attempt any **one** out of two : 5
    (1) Explain direct measure and indirect measure in problem based estimation.
    (2) Explain PERT chart in detail.

5 (a) Objective type questions : 4
    (1) CAD stands for _____.
    (2) What is an extension of Visio drawing file ?
    (3) Actor is used in _____ diagram.
    (4) Object includes _____.

(b) Attempt any **one** out of two : 2
    (1) Explain use case diagram.
    (2) Write basic steps to draw flow chart in MS-Visio.

(c) Attempt any **one** out of two : 3
    (1) Write a note on MS project.
    (2) What is UML ? Write a note on class diagram.

(d) Attempt any **one** out of two : 5
    (1) Explain MS-Visio in detail.
    (2) Explain activity diagram and use case diagram with example.

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