# HN-003-1022001

## P. G. D. C. A. (Sem. II) (CBCS)
## (W.E.F. 2016) Examination
### April - 2023
## SAD, Sfotware Quality Assurance and
## Testing : CS-07

**Faculty Code : 003**
**Subject Code : 1022001**

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

**1** (a) Objective type questions : 4
   (1) DSS stands for _____
   (2) SDLC stands for _____
   (3) DFD stands for _____
   (4) DD stands for _____

   (b) Answer in brief : (any 1 out of 2) 2
   (1) Explain any two roles of system analyst in brief.
   (2) Define System and Business System.

   (c) Answer in detail : (any 1 out of 2) 3
   (1) Explain Decision Table in detail with an example.
   (2) Explain any thee Fact-finding techniques in detail.

   (d) Write a note on : (any 1 out of 2) 5
   (1) Write a note on SDLC.
   (2) Discuss DFD with a suitable example.

**2** (a) Objective type questions : 4
   (1) _____ is a general term that is used for an error or fault.
   (2) _____ testing is a combination of white-box testing and black-box testing.
   (3) _____ testing is performed to test non-functional requirements.
   (4) Performance testing is a type of _____ testing.

(b) Answer in brief : (any1 out of 2)                                      **2**
    (1) Explain Error and Defect.
    (2) Explain software testing in brief.

(c) Answer in detail : (any 1 out of 2)                                    **3**
    (1) Explain Static and dynamic testing in detail.
    (2) Explain any three Testing Artifacts in detail.

(d) Write a note on : (any 1 out of 2)                                     **5**
    (1) Test levels
    (2) Black Box and White Box software testing.

**3** (a) Objective type questions :                                       **4**
    (1) _____ phase joins two sides of the V-Model.
    (2) _____ model is not suitable for smaller projects.
    (3) _____ model is suitable when project size is very small.
    (4) QTP stands for _____.

(b) Answer in brief : (any 1 out of 2)                                     **2**
    (1) Explain Software Piracy in brief.
    (2) Explain categories to test software by Automated testing tools in brief.

(c) Answer in detail : (any 1 out of 2)                                    **3**
    (1) Explain Automated Testing. Give benefits and limitations of Automated Testing.
    (2) Explain Freeware, Shareware and Licensed Tools.

(d) Write a note on : (any 1 out of 2)                                     **5**
    (1) Waterfall model and V-Model.
    (2) Win Runner and Rational Suite.

**4** (a) Objective type questions :                                       **4**
    (1) KLOC stands for _____
    (2) FP stands for _____
    (3) PERT stands for _____
    (4) CPM stands for _____

(b) Answer in brief : (any 1 out of 2)                                     **2**
    (1) Explain Project Management in brief.
    (2) Explain any four Effort Estimation Techniques in detail.

(c) Answer in detail : (any 1 out of 2) **3**

    (1) Explain COCOMO model in detail.

    (2) Explain any four Decomposition Techniques in detail.

(d) Write a note on (any 1 out of 2) **5**

    (1) LOC and FP

    (2) PERT chart with an example

**5** (a) Objective type questions : **4**

    (1) ISO stands for _____.

    (2) QA stands for _____

    (3) CAD stands for _____.

    (4) QC stands for _____

(b) Answer in brief : (any 1 out of 2) **2**

    (1) Explain any two Software Quality Assurance (SQA) Activities.

    (2) Explain UML in brief.

(c) Answer in detail : (any 1 out of 2) **3**

    (1) Pert Chart

    (2) Graphical Reporting Tools

(d) Write a note on (Any 1 out of 2) **5**

    (1) Discuss MS Visio and MS Project.

    (2) Class Diagram and Use Case Diagram.

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