22621/F 210

Reg. No. | | | | | | | | |

VI Semester B.C.A.2 Examination, May/June 2018
SOFTWARE PRACTICES AND TESTING (Repeater)

Time : 3 Hours Max. Marks : 80

Instructions : *1) Answer the questions of* ***all three*** *Sections.*
2) Draw diagram ***wherever*** *necessary.*

SECTION – A

Answer **any ten** questions, **2** marks **each**. **(10×2=20)**

1. What is software testing ?
2. Define the system testing.
3. What is quality control ?
4. List the phases of software development life cycle.
5. Define unit testing.
6. What is validation ?
7. What is black box testing ?
8. Expand SRS and TRS.
9. What is Beta testing ?
10. What is risk mitigation planning ?
11. What does test case contain ?
12. What is test automation ?

SECTION – B

Answer **any six** questions, each carry **5**. **(6×5=30)**

13. Write the fundamental principles of testing.

14. Explain the development phases of waterfall model, with a neat diagram.

P.T.O.

15. Explain with a diagram top down interfaces and bottom up interface.

16. Distinguish between verification and validation.

17. What is regression testing ? Explain the types of regression testing.

18. What is performance testing ? Discuss any 2 methodologies.

19. What is cyclomatic complexity ? Give an example.

20. Write a short note on :
    i) Smoke testing
    ii) Aesthetic testing.

SECTION – C

Answer **any three** questions, **each** carry **10** marks. **(10×3=30)**

21. a) Discuss the phases of software development life cycle.

    b) What is white box testing ? Discuss the components of static testing. **(5+5=10)**

22. a) What is integration testing ? Explain any 2 methods of integration testing.

    b) What is spiral model ? Write the advantages and disadvantages of spiral model. **(5+5=10)**

23. a) Distinguish between functional and nonfunctional testing.

    b) What is scenario testing ? Give an example. **(5+5=10)**

24. Explain the organisation structure of multiproduct company, with neat diagram. **10**

25. Write a short note on :
    i) Stress testing
    ii) Interoperability testing
    iii) Gray box testing
    iv) Class diagram
    v) Test case. **(2+2+2+2+2=10)**

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41522/E220

Reg. No. | | | | | | | | |

V Semester B.C.A. 4 Degree Examination, Nov./Dec. - 2019
SOFTWARE PROGRAMMING AND TESTING
(Regular)
Paper : BCA4

Time : 3 Hours **Maximum Marks : 80**

Instruction to Candidates:

1) Answer the questions of all three sections as per instructions.
2) Draw diagram wherever necessary.

SECTION - A

1. Answer **all** the questions, **2** marks each. **(10×2=20)**

a) What is validation?

b) Differentiate between static and structural testing.

c) What is integration testing?

d) What is defect bash?

e) What is beta testing?

f) Differentiate between positive and negative testing.

g) What is risk mitigation planning?

h) Mention any two responsibilities of CTO.

i) Misconceptions about testing.

j) What is automation?

SECTION - B

Answer any **four** questions , **5** marks each: **(4×5=20)**

2. Explain the classification of white box testing.

3. Differentiate between functional and non functional testing.

4. Explain the concept of Aesthetic & Accessibility testing.

5. What are the responsibilities of a senior test engineer.

6. Explain the aspects of risk management.

P.T.O.

SECTION - C

Answer any **four** questions , **10** marks each: **(4×10=40)**

7. a) Explain V-model of s/w development with neat diagram.

b) Explain black box testing with test cases. **(5+5)**

8. a) Differentiate between quality assurance and quality control.

b) What are the criteria for acceptance testing explain. **(5+5)**

9. a) Explain the tools used for testing object oriented systems.

b) Explain the types of Regression testing. **(5+5)**

10. a) What are the career progressions for testing professionals? Explain.

b) Draw the organization structure of multiproduct company and explain. **(5+5)**

11. a) Why to go for test automation? What are the advantages?

b) Explain the choice of standards. **(5+5)**

41522/E220

Reg. No. | | | | | | | | |

V Semester B.C.A.4 Degree Examination, March/April - 2021
SOFTWARE PROGRAMMING AND TESTING
(Regular/Repeater)

Time : 3 Hours **Maximum Marks : 80**

***Instructions to Candidates*:**

1. Read carefully all the Three sections their marks and answer the questions as per instruction.
2. Draw diagrams wherever necessary.
3. Write question numbers correctly.

SECTION - A

Answer **All** the questions, **2** marks each. **(10×2=20)**

1. a) Why software testing is important?
   b) "The car is complete, you just have to point it" what does this principle of testing mean?
   c) What are stubs and Drivers in integration testing?
   d) Name the Parameters that affect the compatibility of the product?
   e) What are the steps involved in the methodology of performance testing?
   f) Why usability testing is needed?
   g) What are product and service organizations?
   h) What arguments would you give to a person who says that the "Testing job is not technically challenging".
   i) Mention the steps of a Test Plan?
   j) What are the classification of generations for automation testing?

SECTION - B

Answer any **Four** questions. **5** marks each. **(4×5=20)**

2. Explain V-model with help of an diagram?
3. Explain Boundary value Analysis and Equivalence partitioning with an example?
4. Explain the tools used in testing object oriented systems?
5. Explain the Role of education system to clear the perception and misconception issue?
6. What are the benefits of using automation in testing?

P.T.O.

SECTION - C

Answer any **Four** questions. **10** marks each.

7. a) Draw control flow graph and find cyclomatic complexity for following code. (4)

```
1.  Input  A
    Input  B
    Input  C
2.  While  (A< 20)
3.  Print  A+B
4.  If     (A == C)
5.  Print  A
6.  Else
               Print C
7.  End of while do
8.  If (C <= 100)
9.  Print  A+B
10. Else
               Print A - B
11. End of Program
```

b) What is Test Case? Write the format of Test Case Parameters? (2+2+2)

c) Write difference between statement and condition coverage.

d) Write different phases of SDLC.

8. a) Explain scalability and stress testing? (5+5)

b) Explain Top - down and Bottom - up integration testing with an diagram and example.

9. a) What is Accessibility Testing? Explain types of Accessibility Testing. (5+5)

b) What is Regression Testing? Explain types of Regression Testing.

10. a) What are the responsibilities of Senior Test Engineer and Test Lead? (5+5)

b) Explain Round - the clock development testing model?

11. a) Explain Test Infrastructure management TCDB, DR, SCM with an diagram? (6)

b) What are the steps of Risk management and name some of the risks encountered in testing Projects. (4)

41522/E220

Reg. No. M 1 9 1 0 0 0 3

V Semester B.C.A. 4 Degree Examination, March - 2022
SOFTWARE PROGRAMMING & TESTING
(Repeater / Regular)

Maximum Marks : 80

Time : 3 Hours

Instructions to Candidates :

1. *Answer the questions of ALL Three Sections as per the Instructions.*
2. *Draw Diagrams wherever necessary.*

SECTION - A

(10×2=20)

Answer **ALL** the questions **2** marks each.

1. a) What is SRS?
   b) What is RAD? Is it a prototype?
   c) Define Stress Testing.
   d) What is Acceptance Testing?
   e) What is Aesthetic Testing?
   f) Name the classification of Test Cases.
   g) What is Risk Mitigation Planning?
   h) Write any two responsibilities of CTO.
   i) Name the choice of Standards.
   j) What is Software Test Automation?

SECTION - B

Answer any **4** of the following, **5** marks each. (4×5=20

2. Explain the phases of Software Development.
3. Differentiate between Static Testing and Structural Testing.
4. What is Regression Testing? Explain its types.

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5. What are the responsibilities of Test Lead?

6. Explain the aspects of Risk Management with neat diagram.

SECTION - C

Answer any 4 of the following - 10 marks each. (4×10=

7. a) Explain V-Model of S/w Development with neat diagram.
   b) Differentiate between Prototype and RAD model of software development.

8. a) Explain black box testing with test cases.
   b) Explain the criteria for acceptance testing.

9. a) Explain the tools used for testing object oriented systems.
   b) Explain the categories of accessibility testing.

10. a) Explain the career progressions for the testing professionals.
    b) Explain the structure of a multiproduct company.

11. a) How test automation can help us to address several problems? (
    b) Explain the process of calculating cyclomatic complexity with an example.
