

Vidya Vikas Mandal's
Shree Damodar College of Commerce & Economics, Margao-Goa
BCA Semester - V Examination, January /February 2021
Software Testing (BCA501)

Duration: 2 Hours

Maximum Marks: 50

Instructions:

- 1) All Questions are compulsory.
- 2) Answer each Question on a fresh page.
- 3) Figures to the right indicate full marks.
- 4) Mention suitable assumptions, if any.
- 5) Draw Diagrams wherever necessary.

1. Answer the following in 50 - 80 words each. 5 x 2 = 10
 - a) Define software testing and test case?
 - b) Mention any 4 types (common techniques) of functional system testing.
 - c) What do you mean by polymorphism and requirement traceability matrix?
 - d) Mention any 2 challenges of a global (geographically distributed) team.
 - e) Mention any four type (categories) of software maintenance.

2. Answer the following. 10
 - A). Define code coverage testing? Mention any 2 types of code coverage testing? 2
 - B). Give 6 points of differences between Software Quality Assurance and Quality Control? 3
 - C). What is the objective of Integration Testing? Mention the various methods used to decide integration order of software components? Which type of integration testing method will be most suitable for the software where requirements, design, and architecture is changing dynamically? Support your answer with suitable reason. 5

3. Answer the following. 10
 - A). Define the terms Localization and Internationalization? 2
 - B). Explain the concept of **pair testing** along with its advantages? 3
 - C). What do you mean by encapsulation and class diagram? Explain the concept of **Alpha-Omega** method for testing Object Oriented System? 5

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| 4. Answer the following. | 10 |
| A). Explain the terms Project Matrices and Product Matrices. | 2 |
| B). Mention any three common risks encountered in software testing projects. | 3 |
| C). Write a short note on various misconceptions of software testing. | 5 |
| 5. Answer the following. | 10 |
| A). Explain the need of software maintenance. | 2 |
| B). Briefly explain the change control procedure in Software Configuration Management. | 3 |
| C). What is software documentation? Why software documentation is needed? | 5 |

Best of Luck