



B.C.A. (Semester - V) Examination, October 2016
SOFTWARE TESTING

Duration : 2 Hours

Total Marks : 50

Instructions : 1) **All questions are compulsory.**
2) **Figures to the right indicate full marks.**

1. A) Fill in the blanks : (5×1=5)
 - a) The capability of system in handling multiple transactions is determined by _____
 - b) _____ attempts defect prevention by concentrating on the process of producing the product.
 - c) _____ is series of steps executed on a product, using pre-defined set of input data, expected to produce pre-defined set of output.
 - d) _____ maintenance is done to adapt to the changing user requirements.
 - e) _____ integration is also called as Sandwich Integration.
- B) Answer the following in **one** or **two** sentences : (5×1=5)
 - a) Differentiate between verification and validation.
 - b) Define Productivity Metrics.
 - c) What is Regression Testing ?
 - d) Give 1 goal of Software Documentation.
 - e) What is Software Configuration Management ?
2. Answer the following : 10
 - A) What is the need to perform Software Testing ? 2
 - B) Explain Change Control procedure in SCM. 3
 - C) Explain Black Box Testing. List out the different Black Box Testing Techniques. 5
3. Answer the following : 10
 - A) What is Smoke Test ? 2
 - B) Briefly explain how Risk Management is handled in Software Testing ? 3
 - C) Write a short note on Misconceptions of Software Testing. 5

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4. Answer the following : 10
- A) "Heavy emphasis on reusability of code makes system testing even more important for Object Oriented Systems." Justify. 2
 - B) State any 3 aspects one has to follow in Test Planning. 3
 - C) Explain any 5 features of Object Oriented Systems. 5
5. Answer the following : 10
- A) What is Corrective Maintenance ? 2
 - B) Briefly explain program documentation. 3
 - C) Explain the factors governing Performance Testing. 5