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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc.(IT) (2015 & Onward) (Sem.-6)

SOFTWARE TESTING AND QUALITY ASSURANCE

Subject Code : BSIT-602

M.Code : 74727

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A**1. Answer briefly :**

- a) Define Unit Testing with example.
- b) What do you mean by White-Box Testing?
- c) What is Process Verification and Validation?
- d) Differentiate between Error and Defect.
- e) Differentiate between Metric & Measure.
- f) Define SQA.
- g) Explain the role of Audit in Software Review activity.
- h) What is the function of Debugger?
- i) What do you understand by Six Sigma Quality Standard?
- j) How defects can be prevented?



SECTION-B

2. What is the need of Testing? Enlist its various types. Discuss with suitable examples.
3. What are the various design strategies for generating test cases? Explain Black-Box approach in detail.
4. Write in detail the process of measuring software size using Function Point Metric.
5. What is Object-Oriented Testing? How it can be performed? Discuss with suitable example.
6. Explain in detail the quality standard ISO 9000 & 9001.
7. What are the various levels of CMM? Explain in detail the role of KPAs in each level.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.