

Roll No.

Total No. of Pages: 02

Total No. of Questions: 07

**B.Sc. (IT) (Sem. – 6)**  
**SOFTWARE TESTING AND QUALITY ASSURANCE**

**M Code: 74727**

**Subject Code: BSIT-602**

**Paper ID: [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. a) Distinguish errors and faults.  
b) What is the concept of Integration testing?  
c) Write a short note on the need of test case design.  
d) Define GOM technique.  
e) Discuss Quality attributes portability and usability.  
f) What is use of Capability Maturity Model?  
g) Define Verification & Validation.  
h) What is project tracking and oversight?  
i) Write a short note on testing tools.  
j) Write the role of OOT in software Engineering?

## SECTION B

2. Explain the use of test bed. Discuss the significance of white box and black box testing.
3. Describe the life cycle of defect in test management. Write the types of defects.
4. Explain the scope of Software Metrics. Discuss the measurement basics of software.
5. Discuss the importance of Quality Assurance. What is Quality control and SQA activities?
6.
  - a) Write a short note on Six Sigma in Quality Management.
  - b) What is a configuration management system?
7. What are testing evaluation techniques? Discuss Metrics for designing and testing the source codes.