B.Sc. (IT)   (Sem.–6)

SOFTWARE TESTING AND QUALITY ASSURANCE

Subject Code : BSIT-602

M.Code : 74727

Date of Examination : 06-07-22

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. Enlist and state down the principle of Software Testing.

   b. What is the role of moderator in review process?

   c. What are the steps for top down integration?

   d. What is Verification & Validation?

   e. What is the difference between Software Testing & Quality Assurance?

   f. What is Object Oriented Testing?

   g. Differentiate between Load and Stress Testing.

   h. Define Software Configuration Management.

   i. When should testing be stopped?

   j. Write note on Six Sigma in Quality Management.

SECTION-B

2. Write a detailed note on the ISO 9000 & 9001 standards.

3. a. Explain levels of SEI CMM model in detail.

   b. Explain the planning of SQA.

4. Write a detailed note on Software Metrics.

5. a. Explain equivalence class & boundary value analysis with an example.

   b. What are the responsibilities of project manager for developing quality plan for software project?

6. Write short notes on :

   a. Strategic Test Management.

   b. Defect management process.

7. a. Explain bug tracking, bug fixing & bug verification.

   b. Explain operational test management.

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.