

Roll No.

Total No. of Pages: 02

Total No. of Questions: 07

B.Sc(IT) (2015 & Onwards) (Sem. – 5)

SOFTWARE ENGINEERING

M Code: 74377

Subject Code: BSIT-503

Paper ID: [74377]

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) Discuss Spiral Model in SDLC.
b) What is Metrics in Software Engineering?
c) Which Model is used for cost estimation?
d) What is problem based estimation?
e) Write a short note on ER diagram.
f) Explain Beta testing.
g) Distinguish between verification & validation.
h) Write the advantage of Black Box Testing.
i) Discuss document restructuring in software engineering.
j) Write a short note on unit testing.

SECTION B

2. What is Software Requirements Specification (SRS)? What are the objectives of Requirement Analysis?
3. What are the purposes of Data Flow diagrams, Entity-Relationship diagrams? Give an example diagram of each.
4. What is design process in software engineering? What is the importance of Procedural design?
5. Give the importance of test case design. List different types of testing done during the testing phase.
6. What is Reverse Engineering of Software? How it is used for recreating a design?
7. Discuss Computer Aided Software Engineering. How CASE is used for development and maintenance of software project?