M.Sc. (IT)   (Sem.–3)
SOFTWARE ENGINEERING AND PROJECT MANAGEMENT
Subject Code : MSIT-302
M.Code : 74067

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
 1. **SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students have to attempt any ONE question from each SECTION.**
 2. **SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.**

SECTION-A

1) Current trends in software engineering are moving away from the waterfall model for large and moving towards iterative methods such as spiral model? What we are gaining and losing as a result? Explain with suitable examples.

2) Discuss various Software engineering Principles.

SECTION-B

3) What are the QFD and FAST requirement elicitation techniques in detail? Give illustrative examples to explain.

4) Compare Procedural Vs Object Oriented designs in detail.

SECTION-C

5) What are software metrics? What is their need? What are their types? Explain in detail.

6) Explain COCOMO and COCOMO –II in detail.

SECTION-D

7) What do you understand by software quality management? What are the various means to check the quality of the Software?

8) What is change Control? What is the change control process? What is importance? Explain the concept of change control in detail.

SECTION-E

Write briefly :

9)   What is requirements engineering?

10)   What are the basic principles of software testing?

11)   Differentiate among Error, Fault and Failure.

12)   What is system testing?

13)   How is the effort in a project measured?

14)   What are the objectives of Software testing?

15)   What is the need of metric in software?

16)   Why is the waterfall model impractical?

17)   What are the various levels of testing?

18)   What are the major factors contributing towards costs in software projects?

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.