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Total No. of Pages: 02

Total No. of Questions: 09

**M.Sc.(IT) (2015 Onwards) (Sem. – 3)**  
**SOFTWARE ENGINEERING & PROJECT MANAGEMENT**  
**M Code: 74067**  
**Subject Code: MSIT-302**  
**Paper ID: [74067]**

Time: 3 Hrs.

Max. Marks: 60

**INSTRUCTIONS TO CANDIDATES:**

1. **SECTIONS-A, B, C & D** contains **TWO** questions each carrying **TEN** marks and students has 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. a) What is Software Engineering? Discuss the principles of Software Engineering.  
b) Compare Software Development and Software Engineering.
2. a) Explain agile methodology- XP in detail.  
b) What is Waterfall model? How it differs from Spiral model?

**SECTION B**

3. Define Requirement Elicitation. Discuss the various techniques of Requirement Elicitation.
4. What is OO design? List out the differences between Procedural and OO design.

**SECTION C**

5. What is Risk Assessment? How is it carried out? Discuss its significance.
6. Explain Software Testing Techniques in detail.

**SECTION D**

7. Discuss management of Software Quality and its importance in detail.
8. Explain the following:  
a) Reverse Engineering                      b) Re-engineering

## SECTION E

9. a) What do you mean by ISO 9126?
- b) Define Change control.
- c) Discuss selection of appropriate process model.
- d) What is Scrum?
- e) Define LOC.
- f) What do you mean by Metrics?
- g) Differentiate between error and fault.
- h) Explain briefly the term test cases.
- i) Compare COCOMO-I and COCOMO-II.
- j) What is the importance of Software Project Planning?