Roll No. | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 09

M.Sc.(IT) (2016 Onwards) (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) Explain prototyping model and describe that which model cannot be used in actual software development projects and why?

2) What is the principle aim of software engineering discipline? What does the discipline of software engineering discuss?

SECTION-B

3) Suppose you are an analyst of a large software development project, discuss the aspects of the software product you would include in the Software Requirement Specification (SRS) document? What would be the organization of your SRS document?

4) Differentiate between procedural design and object - oriented design techniques with suitable examples.

SECTION-C

5) Explain COCOMO-A Heuristic Estimation Technique. With a pictorial representation show the order in which the following are estimated in COCOMO estimation technique: cost, effort, duration and size.

6) What do you understand by the term System Testing? What are the different types of system testing that are usually performed on large software products?

SECTION-D

7) What according to you is a quality software product? Give the importance of software Quality.

8) Explain the term Software Reverse Engineering. Why is it required? Explain the different activities undertaken during reverse engineering.

SECTION-E

9) Write briefly :

a. What do you understand by Agile methodology?

b. Define the term Software crisis.

c. Write down the four aspects of a good software design.

d. Define PERT.

e. What is CPM?

f. What do you understand by Risk Management?

g. How the term error is different from failure? Justify your answer.

h. What is change control process?

i. Define web engineering.

j. Give a short note on importance of CASE tools.