Code: CSCS2T2

**I M.Tech - II Semester - Regular Examinations - September 2015**

**SOFTWARE ENGINEERING**
**(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours                                    Marks: 5x14=70

Answer any FIVE questions.   All questions carry equal marks

1. a) Define the terms "Software" and Software Engineering"
   and explain them.                                    7 M

   b) Explain about CMMI.                                7 M

2. a) Explain the various phases of waterfall model.     7 M

   b) Explain about functional and non functional requirements
   in detail.                                           7 M

3. a) Explain about requirements elicitation and analysis.   7 M

   b) Explain about context models with examples.        7 M

4. a) Explain the various design concepts in detail.     7 M

   b) Explain the various architectural styles  in detail.    7 M

5. a) Define UML. Explain about use-case model with example.

7 M

b) Draw activity diagram for Library Management System.

7 M

6. a) Explain the following testing strategies.      8 M
   i) white-box testing      ii) black-box testing

b) List various McCall's quality factors and explain them
   briefly                                            6 M

7. a) Explain about size-oriented and function-oriented metrics .

7 M

b) Discuss in detail the RMMM plan with a suitable example

7 M

8. Explain the following
   a) SQA                                             6 M
   b) Software Reliability                            4 M
   c) The ISO 9000 quality standards                  4 M