MCA (Revised)

Term-End Examination

June, 2017

05611

MCS-034 : SOFTWARE ENGINEERING

Time : 3 hours   *Maximum Marks : 100*

(Weightage 75%)

Note : *Question no. 1 is **compulsory**. Attempt any **three** questions from the rest.*

1. (a) Explain the spiral model and state its merits and demerits with a neat diagram.   *10*

    (b) Explain the design considerations of interface design.   *10*

    (c) List and explain the two categories of project metrics along with the help of an example for each.   *10*

    (d) Define Cleanroom software engineering. What is its significance ? Discuss the underlying principles of cleanroom-based software development.   *10*

2. (a) Explain the importance of requirement analysis in SDLC. **10**

(b) Discuss in detail about the problems in SRS. **10**

3. (a) Draw level-0, level-1 and level-2 DFDs for an Online Railway Reservation system. **10**

(b) Describe any one model for software estimation. **10**

4. (a) Write a brief note on management of risks. **10**

(b) Compare and contrast formal and informal technical reviews. **10**

5. (a) Discuss the issues involved in the management of web based projects. **10**

(b) Give an overview of a software re-engineering development process with a diagram. **10**