ADCA / MCA (II Year)

Term-End Examination

December, 2010

CS–10 : SOFTWARE ENGINEERING

03064

Time : 3 hours *Maximum Marks : 75*

Note : *Question number 1 is* **compulsory.** *Answer* **any three** *questions from the rest.*

1. (a) Propose a design for a computerized   15
        employee leave management system. Make
        suitable Assumption and mention it.
        (i) Draw DFD's up to level 2 for the above
             project.
        (ii) Prepare SRS document for the same.

    (b) What do you mean by S/W metrices ?   8
         Discuss the set of Attributes which should
         be encompassed by effective S/W metrices.

    (c) What is risk management ? Discuss its five   7
         techniques in brief.

2. (a) Draw a class diagram representing a book   7
         defined by the following statement :
         "A book is composed of a number of parts,
         which in turn composed of chapters.
         Chapters are composed of sections".

(b) List various fact finding Techniques. 8
Describe options for designing and
conducting interviews.

3. (a) Describe the features of an ideal software 7
attribute w.r.t. quality assurance.

(b) Explain the following : 8

(i) Alpha and Beta testing

(ii) Software verification and validation.

4. (a) Give a detailed account on debugging 7
techniques on their classifications and the
methods involved.

(b) Write the differences between 8

(i) Forward engg. and reverse engg.

(ii) Product and Process

5. Write short notes on : 15

(i) SQA

(ii) CASE Tools

(iii) Coupling Vs Cohesion

(iv) Role of System Analyst

(v) Data Dictionary