CS-70

BACHELOR OF COMPUTER APPLICATIONS (PRE - REVISED)

04133

Term-End Examination

December, 2012

CS-70 : INTRODUCTION TO SOFTWARE ENGINEERING

Time : 3 hours   *Maximum Marks : 75*

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

1. (a)   Design a system for a Transport company.   **10**
          Draw an ER diagram for this system.
          Describe all the entities and their
          relationships and also mention their
          cardinality. Indicate assumptions, if any.

    (b)   What is system analysis ? Describe the   **10**
          importance of system analysis in software
          system development. List any five
          responsibilities of a System Analyst.

    (c)   Explain prototype model of software   **5**
          development. Is prototype model a suitable
          model for courier company management
          system ? Justify your answer.

    (d)   What is function point analysis? List four   **5**
          features of it.

2. (a) Describe COCOMO model, briefly. 5

(b) What is project scheduling? Explain briefly 10
two project scheduling techniques with an
example for each.

3. (a) What are various management risks in 5
Software Development ? Discuss any two
areas of risk that software project
management team should handle.

(b) What are CASE tools ? Explain different 10
categories of CASE tools.

4. (a) What is SRS ? Is SRS compulsory for 10
developing a software application ? Justify
your answer. Prepare a SRS document for
Retail management system.

(b) What is coupling ? What are various types 5
of coupling? What are disadvantages of a
highly coupled system ?

5. (a) What is Benchmark testing ? Explain how 5
it helps in evaluating systems performance ?

(b) Explain the following terms in context of 10
Software Engineering.
(i) 4GLs
(ii) Software Evaluation
(iii) Validation and verification
(iv) Reliability