16115(J)   June-16

B. Tech 6th Semester Examination

Software Engineering (NS)

CS-323

Time : 3 Hours   **Max. Marks : 100**

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Candidate are required to attempt five questions in all selecting one question from each of sections A, B, C & D of question paper and all the subparts of the questions in Section E.

SECTION - A

1. List some of the desirable characteristics of a good SRS document. Discuss the relative advantages of formal requirement specifications. List important issues which an SRS must address.   (20)

2. Explain advantages, disadvantages and working of any two software development models   (20)

SECTION - B

3. What are the various factors associated with cost estimation of a project? Explain any cost estimation technique.   (20)

4. Write a detailed note on Function oriented software design.
                                                        (20)

SECTION - C

5. Explain the following testing in detail:

    (a) Black box testing

    (b) White box testing   (10+10=20)

6. What are the main requirements of ISO 9000 quality standards? Also explain the ISO approach to quality assurance systems.
                                                        (20)

SECTION - D

7. Explain in detail the concept of software Reuse.   (20)

8. Explain in detail the concept of Client-Server Software by writing its advantages and disadvantages. Also explain in brief about Client-Service Architecture.   (20)

SECTION - E

9. (a) What is the need for software Engineering?   (2)

    (b) Explain what is a DFD.   (2)

    (c) Explain the term Data Dictionary.   (2)

    (d) Define the term Software Maintenance.   (2)

    (e) Differentiate between software architecture and software design.   (2)

    (f) Define the term security testing.   (2)

    (g) Explain in brief the term SOA.   (4)

    (h) Explain in brief the software configuration management.
                                                        (4)