B.Tech

SEVENTH SEMESTER EXAMINATION, 2005-2006

Software Engineering

Time : 3 Hours   Total Marks : 100

Note :   (i)   Answer ALL FIVE questions.

(ii)   All questions carry equal marks.

(iii) Be precise in your answer.

1. Answer *any four* questions :   (4x5=20)

(a) Explain software processes. List the generic charaterstics of software processes.

(b) Briefly describe the software development life cycle.

(c) What are the characteristics of a good software ?

(d) List the McCall's software quality factors.

(e) Write short note on 4 GLs.

(f) Explain Reverse Engineering

2. Answer *any four* questions :   (4x5=20)

(a) Compare between functional testing and structural testing.

(b) Explain the decision table method for black box testing.

(c) Discuss the key process areas (KPAs) in different levels of CMM.

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(d) What are the various requirements that must be satisfied by a software product to get ISO 9001 certification ?

(e) What is data dictionary ? Where it is used ? Illustrate with some example.

(f) Write short notes on CASE tools.

3. Answer *any two* questions : (2x10=20)

(a) Describe the type of situations where iterative enhancement model might lead to difficulties.

(b) Explain in brief the spiral model of S/W process.

(c) Explain in brief the various types of process specification tools.

4. Answer *any two* questions : (2x10=20)

(a) Explain in brief the various modelling tools.

(b) Explain the object oriented approach towards the system design.

(c) Explain following terms :-
  (i) Cohesiveness   (ii) Coupling

5. Answer *any two* questions : (2x10=20)

(a) Illustrate with example the COCOMO Software estimation model.

(b) Explain in brief the concept of baselines with reference to Software Configuration Management (SCM).

(c) Write short notes on :-
  (i) Software Quality Assurance
  (ii) Structured Vs Unstructured maintenace.

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