END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY-2008

Paper Code: BCA-204	**Subject: Software Engineering**
Paper Id: 20204	**(Batch: 2005-2006)**
Time : 3 Hours	**Maximum Marks :75**

Note: Q.1 is compulsory. Attempt one question from each unit.

Q1.   Write notes on **(any five)**:-   **(25)**
 (a) Capability Maturity Model (CMM)
 (b) Function Points
 (c) Coupling
 (d) Test cases
 (e) Use Case Diagrams
 (f) Configuration Management
 (g) RAD Model

UNIT-I

Q2.   Discuss spiral model for Software development. How this approach is different from prototyping model approach? Also discuss advantages and disadvantages of SPIRAL Model.   **(12.5)**

OR

Q3.   What is SRS? Describe the nature and characteristics of SRS. Why is it important?   **(12.5)**

UNIT-II

Q4.   What is Project Management? Who does it? Why is it important? Discuss four P's involved in it?   **(12.5)**

OR

Q5.   What is Risk? Discuss typical software risks. What are risk management activities? Is it possible to prioritize the risks?   **(12.5)**

UNIT-III

Q6.   Discuss the guidelines to be considered during object oriented designing. How is object-oriented designing different from function-oriented designing. Also mention the conditions under which object oriented designing suits better.   **(12.5)**

OR

Q7.   Define Software Metrics. How can they be helpful in Software Process improvement? Discuss various size metrics with an example.   **(12.5)**

UNIT-IV

Q8.   Write a function in C/C++ to implement binary search. Draw the flow graph of it and find the cyclomatic complexity also.   **(12.5)**

OR

Q9.   What is Reverse Engineering? Why is it needed? Explain various levels of Reverse Engineering. Discuss some tools available for Reverse Engineering.**(12.5)**

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