END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY-JUNE-2009

Paper Code: BCA204 Paper Id-20204

Subject: Software Engineering (Batch 2005 - 2007)

Time: 3 Hours

Maximum Marks :75

Note: Q.1 is compulsory. Attempt one questions from each Unit.

Q1 (a) Write down the major characteristics of software. Illustrate with a diag the software does not wear out. (b) What is software testing? Discuss the limitations of software testing.	(5) (5)	
(c) What is modularity? List the important properties of a modular system	(5)	
(d) List out requirement elicitation techniques. Which one is most popular and	d why? (5)	
(e) What do you understand by the term Software Development Life Cycle (Why is it important to adhere to a life cycle model while developing a lar software product?		
T		
Q2 (a) Discuss the prototyping model. What is the effect of designing a prototypoverall cost of the project?	pe on the (6.5)	
(b) Compare the waterfall model and the spiral model of software developme OR	, ,	
Draw a DFD for borrowing a book in a library which is explained be borrower can borrow a book if it is available else he/she can reserve for the he/she so wishes. He/she can borrow a maximum of three books".		
(b) What is software requirements specification (SRS)? List five characteristics of a good SRS document. Discuss the relative advantages of		
requirement specifications. List the important issues, which an SRS must address		7
Q3. (a) Discuss various types of COCOMO mode. Explain the phase wise distributions.	oution of (6.5)	
(b) What is risk? Is it economical to do risk management? What is the effect activity on the overall cost of the project? OR	'	
(a) Describe any two software size estimation techniques.(b) Compute the function point value for a project with the following information characteristics.	(6.5) domain	
Number of user inputs = 30		
Number of user outputs = 42		
Number of user enquiries = 08		
Number of internal logical files = 07		
Number of external interfaces = 6		
Assume that all complexity adjustment values are average.	(6)	100
Q4. (a) Define module cohesion and explain various types of cohesion? (b) What are software metrics? Describe data structure metrics. OR	(6) (6.5)	
(a) Discus the areas of applications of software metrics? What are the categories of software metrics? Discuss with the help of suitable example.(b) Define module coupling and explain different types of coupling.		

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Q5 (a) What are various kinds of functional testing? Describe any one in detail. (b) What are various debugging approaches? Discuss them with the help of examples.

(a) Describe various maintenance cost estimation models. (b) What are configuration management activities? Draw the Performa of change request is our requirement exertacion seem ques. Which oue is most o

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(b) What is right is it economical to do use management? What is the offect of this