## **END TERM EXAMINATION**

FOURTH SEMESTER [BCA] MAY 2017

Pape	r Code: BCA-208 Subject: Softu	vare Engineering
		cimum Marks: 75
Note	e: Attempt any five questions including Q no.1 which is cor one question from each unit.	npulsory. Select
	one question from each unit.	
Q1	<ul> <li>(a) What is the aim of software engineering?</li> <li>(b) Provide three examples of software projects that would be prototyping model.</li> <li>(c) Describe 'feasibility study'.</li> <li>(d) What is estimation?</li> <li>(e) What is the difference between 'Deliverable and 'Milestone's (f) What is cyclomatic complexity?</li> <li>(g) What is the difference between flow chart and structure charmonic (h) Define Data structure metrics.</li> <li>(i) Differentiate between Alpha and Beta testing.</li> <li>(j) What is the need for Re-engineering?</li> </ul>	•
	UNIT-I	
Q2	(a) What is software life cycle? Discuss generic waterfall mode (b) Compare iterative enhancement model and evolutionary en	
Q3	(a) Draw two level DFD for library management system. (b) Draw E-R diagram library management system.	(6) (6.5)
	UNIT-II	
Q4	<ul><li>(a) Describe the role of management in software developmen examples.</li><li>(b) Difference between product, process and project.</li><li>(c) What are various factors of management depended development? Discuss each factor in detail.</li></ul>	(4) (4)
Q5	<ul><li>(a) Is it possible to estimate software size before coding? If so, it</li><li>(b) What are size metrics? How is function point metric advantagement.</li><li>(c) What is risk? What are the risk management activities? prioritize the risk?</li></ul>	tageous over LOC (5)
	UNIT-III	
Q6	<ul><li>(a) What are different types of coupling? Give one example of e</li><li>(b) List out the components of 'software Design' document.</li><li>(c) Discuss different types of object oriented and function oriented</li></ul>	(4)
Q7	<ul><li>(a) How does software metric can improve the software process effect of metric on software productivity.</li><li>(b) Which one is the most appropriate size estimation technique.</li></ul>	s? Enumerate the (4) e and why?
	(c) Define and explain data structure metrics.	(4) (4.5)
	UNIT-IV	
Q8	<ul><li>(a) Explain all the steps of cause effect graphing test case design the help of diagram.</li><li>(b) With the help of an example for each, explain following tests (i) Condition testing</li><li>(ii) Loop testing</li></ul>	(4.5)
Q9	<ul><li>(a) What is debugging? Discuss various debugging techniques.</li><li>(b) Discuss various problems during maintenance. Describe these problems.</li><li>(c) Explain boehm's maintenance model with the help of a diag</li></ul>	(4)