## **END TERM EXAMINATION**

## FOURTH SEMESTER [BCA] MAY-JUNE - 2014

## **Software Engineering**

Q1:	Answer the following questions:  (a) What is a software crisis?  (b) Explain ther term 'requirement' in reference to software development.  (c) Why is software development required to be managed?  (d) Discuss the importance of system analysis in brief.  (e) What is a module?  (f) Define Software design.  (g) What is the basic need of measurement in software development?  (h) What is risk mitigation?  (i) Define software testing.  (j) How does cost estimation help?	(10 × 2.5 = 25)
<b>Q2</b> :	What is software life cycle? Explain software life cycle model. Write down merits and demerits of various types of software life cycle models.	(12.5)
<b>Q</b> 3:	<ul><li>(a) Explain the procedure of drawing a DFD for a software system.</li><li>(b) How is an SRS organized? Discuss various characteristics of a typical SRS.</li></ul>	(12.5)
Q4:	<ul><li>(a) What are major state holders in a software development project?</li><li>Discuss the roles of each.</li><li>(b) Explain the activities that are undertaken during any typical software project planning.</li></ul>	(6) (6.5)
<b>Q5</b> :	<ul><li>(a) Explain all the five functional units used in FPA.</li><li>(b) Discuss COCOMO model in detail.</li></ul>	(5) (7.5)
<b>Q6</b> :	Define module coupling and module cohesion. Explain then different types with examples.	(12.5)
<b>Q7</b> :	Discuss the following: (a) Live variables (b) Variable Spam (c) Program weakness (d) Data Structure Metric	(5 × 2.5 = 12.5)
	(e) Token Count	

(b) Discuss path testing with the help of suitable illustrations.

**Q9**: (a) Discuss the role of graph metrics with the help of nodes in flow graph (b) What is software maintenance?

(6) (6.5)