ROLL NO. _

Code: CS44

Subject: SOFTWARE ENGINEERING

ALCCS – OLD SCHEME

Time: 3 Hours

FEBRUARY 2013

Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE:

- Question 1 is compulsory and carries 28 marks. Answer any FOUR questions from the rest. Marks are indicated against each question.
- Parts of a question should be answered at the same place.
- All calculations should be up to three places of decimals.
- **Q.1** a. What is software engineering? Specify the attributes of good software.
 - b. List the fundamental activities, which are common to all software process.
 - c. What do you mean by separation of concepts in software designing?
 - d. Distinguish between functional and non-functional requirements with examples.
 - e. Differentiate between Software Correctness, Software Robustness and Software Reliability.
 - f. Write short notes on stress testing.
 - g. What are the user interface design principles? What are the components of $GUI?(7 \times 4)$
- Q.2 a. Explain with a neat diagram, the Boehm spiral model of software development process. What are the merits of spiral model? (10)
 - b. With a neat diagram explain RAD techniques. (8)
- Q.3 a. Differentiate debugging from testing. Describe following three debugging techniques
 Brute force, back tracking and cause elimination. (9)
 - b. Differentiate between any TWO:-
 - (i) Top-down integration and bottom-up integration testing.
 - (ii) White box and black box testing.
 - (iii) Equivalence partitioning and boundary value analysis. (9)
- Q.4 a. What do you mean by requirement elicitation and analysis? What are the problems associated with that? Explain. (10)
 - b. Explain reverse engineering process. What do you mean by abstraction level and completeness of a reverse engineering process? (8)

	C	Code: CS44 Su	ıbject: SOFTW	ARE ENGINEERING
Q.5	a.	. What is Architectural design? Exp with an example for each.	lain the repository	model and client – server model, (10)
	b.	Describe DFD as structured analysis suitable examples.	sis and UML as ot	oject oriented analysis tool giving (8)
Q.6	a.	. Explain object – oriented design this design.	process in detail.	Also show the process flow for (10)
	b.	. Define verification and validation analysis.	. Explain two tec	hniques of system checking and (8)
Q.7	a.	. Explain in detail COCOMO mode	l used for software	e cost estimation. (10)
	b.	. What are CASE tools? Classify CA	ASE tools based or	n the function. (8)