Roll No. ....

### 24332

## B. Tech. (IT) 6th Sem.

# Examination – May, 2015 PRINCIPLES OF SOFTWARES

Paper: CSE-302-F

Time: Three Hours]

[ Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

- **Note:** Question No. 1 is *compulsory*. Attempt *five* questions in total selecting *one* question from each Section.
  - **1.** (a) What do you mean by software project management?
    - (b) Describe software crisis and reason for it.
    - (c) Explain the significance of software reengineering.

(d)	What do you mean	n by verification ar	nd validation?
	, ,		$4\times5=20$

#### SECTION - A

- (a) Define the term "Software engineering". Explain
  the major differences between software
  engineering and other traditional engineering
  disciplines.
  - (b) Compare iterative enhancement model and evolutionary process model. 10
- 3. What do you mean by cost of software? Explain all the levels of COCOMO model.

### SECTION - B

- 4. (a) Define coupling and cohesion. Explain their types.
  - (b) List advantages of software requirement specification. Describe the desirable characteristic\s of a good software requirement specification.
- 5. Write notes on:

20

	(b)	E-R model	
		SECTION - C	6
6.	(a)	What are various kinds of black box testing  Describe any one in detail.	
	(b)	What is software maintenance? Describe various categories of maintenance. Which category consumes maximum effort and why?	
7.		Describe alpha and beta testing.	2
	(b)	What is the purpose of unit testing? How is done?  SECTION - D	it 8
8		hat is computer aided software engineering plain various CASE tools.	?
9		rite notes on :  Software quality attributes,	20
	<b>(</b> b)	) Software reliability.	

(a) System design