## Total No. of printed pages = 3

## Co-603/SE/6th Sem/2015/M

## SOFTWARE ENGINEERING

Full Marks - 70

Pass Marks - 28

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer question No. 1 and any five from the rest.

## 1. Define:

 $10 \times 2 = 20$ 

- (a) Software crisis
- (b) Verification and validation
- (c) Cohesion and coupling
- (d) SRS document
- (e) PERT chart
- (f) Cyclomatic complexity

[Turn over

- (g) White box testing
- (h) Context diagram
- (i) Reliability
- (j) TQM
- 2. (a) What are the basic characteristics of a good software document?
  - (b) Differentiate between the waterfall model and the spiral model highlighting the differences.
- 3. (a) Mention the characteristics of a good software design.
  - (b) Explain the differences between function oriented and object oriented design. 7
- 4. Explain the various concepts in COCOMO.

10

- 5. (a) How is SQA implemented in an organisation?
  - (b) Mention the different reliability metrics.

5

6. (8	a) Wh	y testi	ing is	necess	ary ?	Explain
	equ	equivalence partitioning technique in testing.				
						1+4=5

- (b) Describe the role of stub and driver in unit testing.
- (c) What is Integration testing?
- 7. (a) List the different phases to be considered in project planning.
  - (b) Explain in brief the different steps to be followed when risk analysis is to be performed. Is it a proactive or reactive exercise? Elaborate.

    5+2=7