Total No. of printed pages = 3

Co-603/SE/6th Sem/2016/N

SOFTWARE ENGINEERING

Full Marks - 70

Pass Marks - 28

Time - Three hours

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

Answer any five questions.

- (a) What is feasibility study ? What are the different feasibility studies that need to be conducted ? 2+3=5
 - (b) Explain the spiral model emphasising each of the four quadrants. 5
 - (c) Define software crisis and explain how software engineering can contribute to reduce this crisis.
- (a) Why SRS document is important ? Explain and also mention the basic contents to be present in SRS document. 2+4=6

[Turn over

(b) Mention the different types of cohesion and coupling and also point out the hierarchy i.e their order from high to low or low to high.

6

2

- (c) Define Software Reliability.
- 3×3=9 3. (a) Write short notes on : (i) Black box and White box testing (ii) Validation and Verification (iii) Unit testing and System testing. 2
 - (b) Define Software Quality.
 - (c) State the activities incorporated in a SQA plan. 3
- (a) Give a brief note on the various reliability 4 metrics. 6
 - (b) What does Level O DFD represent ? 2
 - (c) "Software documents form an integral part of software engineering." What are the different types of software documents and what are the characteristics of a good software document ? 4+2=6

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(2)

- (a) State the objective of Project Planning and mention the various phases of project planning stating the activities in each phase. 2+5=7
 - (b) Briefly explain the three different stages of COCOMO — basic, intermediate and complete. 7
- 6. (a) Answer the following related to Project Scheduling :
 - (i) Difference between PERT and CPM
 - (ii) Function of GANTT chart. 6+3=9
 - (b) Define risk and state the steps to be performed to manage a risk. 2+3=5

(3)