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Total Printed Pages :

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## 4E2919

B. Tech. (Sem. IV)(Main & Back) Examination, June/July - 2011 4CS5 - Software Engg. (Computer & IT) (Common for CS & IT)

Time: 3 Hours]

Total Marks: 80

[Min. Passing Marks: 24

Attempt any five questions.

All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used / calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1: <u>Nil</u> 2. <u>Nil</u>

1 Define a system, enlist and explain its characteristics. Explain SDLC in detail.

16

## OR

1 What is system analysis? Give all the steps with diagrams for modeling the system architecture.

16

- 2 (a) Explain the differences between hardware and software, depict the relevant curves.
  - (b) Give with diagram all the steps of waterfall model.

16

## OR

2 Explain prototyping and spiral models in detail, also differentiate between them.

16

What are requirement analysis tasks and principles? Create an FSM which accepts a valid 'C' language integer.

16

OR

4E2919]



1

[Contd...

3 Create DFDs and CFDs upto level 2 for a photocopying machine's software's working.

16

4 Distinguish between cohesion and coupling. Explain both cohesion and coupling spectrums.

16

OR

4 Give style rules for good programming. How do you quantify program quality?

16

5 Differentiate between object oriented analysis modeling and data modeling. What is object modularization?

16

OR

5 Draw and explain class diagram, object diagram and process diagram. List all the diagrams available in UML.

16

