4E2919

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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. Nil 2. Nil

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**

3 What are requirement analysis tasks and principles ? Create an FSM which accepts a valid 'C' language integer. **16**

OR

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
