

**4E2026**

Roll No. : \_\_\_\_\_

Total Printed Pages : **3****4E2026**

**B. Tech. (Sem. IV) (Reback) Examination, June/July - 2011**  
**Information Tech.**  
**4IT4 Software Engineering**

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.*

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

1. \_\_\_\_\_ **Nil** 2. \_\_\_\_\_ **Nil**

- 1 (a) Define system. What is the importance of system analysis ?  
 Why it is essential before developing the system ? Explain  
 it detail with example.

**8**

- (b) How the problem in system development is final ? Justify  
 yours answer.

**8****OR**

- 1 (a) Explain in detail various steps are involved in the System  
 Development Life Cycle (SDLC).

**8**

- (b) How the project planning is done ? What are various method  
 which are used for effective software system planning ?

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- 2 (a) What are the objectives of Software Project Management ?  
 Explain Software Resources and estimation.

**8**

- (b) Explain (SWDLC) Models Software Engineering approaches.

**8****OR****4E2026****1****[Contd...**

- 2 (a) How Software project scheduling is made ? Explain in detail. 8
- (b) Explain in detail (COCOMO) model for Software Engg. 8
- 3 (a) What is the importance of software requirement analysis ?  
How this task is to be analysed ? Explain. 8
- (b) Write short notes on the following :  
(i) Finite state machine models (FSM)  
(ii) DFD (data flow diagram) 8

**OR**

- 3 (a) What is the importance of Software prototyping ? Explain in detail with Software example. 8
- (b) Write short notes on the following :  
(i) Data dictionary  
(ii) Finite state machine models (FSM). 8

- 4 (a) Explain various steps involved in Software design process. 8
- (b) Why Software documentation is essential for the developmental of s/w design explain. 8

**OR**

- 4 (a) Differentiate between Software development traditional approaches and s/w modular design approaches. 8
- (b) Write short notes on :  
(i) Procedural design  
(ii) Software testing. 8



- 5 (a) What do you mean by object oriented analysis ? Explain the object oriented analysis modeling in detail.
- (b) Write short notes on the following :
- (i) Unified Modeling Language
  - (ii) Class and object relationships.

8

**OR**

- 5 (a) What are the important feature and characteristic of effective object oriented design explain.
- (b) Write short notes on the following :
- (i) Data modeling
  - (ii) Object modularization. rtuonline.com

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