



DM-0787

**B. C. A. (Sem. III) Examination**  
**September / October – 2006**  
**Software Engineering**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दशांश देव निशानीवाणी विगतो उत्तरवली पर अवश्य लपवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
B. C. A. (Sem. 3)

Name of the Subject :  
Software Engineering

Subject Code No. : 0 7 8 7 Section No. (1, 2,.....) : Nil

Seat No. : [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Student's Signature

(2) Figures to the right indicate full marks.

1 Answer the following : (any five) 10

- (1) How should we define software ?
- (2) Why does the waterfall model sometimes fail ?
- (3) Is it possible to combine process models ? If so, provide an example.
- (4) What do you mean by MTBF, MTTF and MTTR ?
- (5) What methods are used to design effective test cases ?
- (6) What is a successful test ?

2 (a) Why are models important in software engineering work ? Are they always necessary ? Explain about prototyping model with its limitations and advantages. 10

(b) Why feedback is important to the software team ? 5

OR

2 (a) Write a note on component of SRS. 10

(b) Explain about quality measures in software engineering. 5



RG-1865

**Second Year B. C. A. (Sem. III) Examination**  
**April / May – 2007**  
**Software Engineering**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दशांशवैद निशा-नीवाणी विगतो उत्तरवकी पर अवश्य लपनी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
S. Y. B. C. A. (Sem. 3)

Name of the Subject :  
Software Engineering

Subject Code No. : 1 8 6 5 Section No. (1, 2,.....) : Nil

Seat No. : 

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Student's Signature

(2) Figures to the **right** indicate **full** marks.

1 Answer the following : (any five) 10

- (1) Draw a context level bubble chart for railway reservation system.
- (2) Give the difference between black box and glass box testing.
- (3) Are black and white box testing approaches alternative of each other ? – Justify.
- (4) What do you mean by balancing ?
- (5) Explain Pareto principle.
- (6) List out some goal of software engineering.

2 (a) Write a short note on any one of the architectural design process. 10  
*298 book*

(b) Differentiate between Modularity and Integration. 5  
*3-43*  
Where are they observed ?

OR

- 3 (a) Define the term coupling with its type. 5  
(b) Explain principles of specifications in detail. 10

OR

- 3 (a) What is the use of data dictionary ? Why it is required ? 5  
(b) Draw a data flow diagram for simple invoicing system for a small business. 10

- 4 Write a note on any three : 15  
- Data flow diagram 310  
- Software quality matrix  
- Cohesion  
- Structured analysis. 233

- 5 (a) What is the difference between validation and verification ? Are they alternative of each other ? 5  
(b) What is an importance of design phase in software engineering with its type ? 10

OR

- (b) Write a note on information hiding. 10