Printed Pages: 3 CS-701

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1058

Roll No.

B. Tech.

(SEM. VII) EXAMINATION, 2007-08 SOFTWARE ENGINEERING

Time: 3 Hours]

[Total Marks: 100

Note: Attempt all the questions.

1 Attempt any four parts of the following:

 $5 \times 4 = 20$

- (a) How does the principles of software engineering help reducing the software crisis?
- (b) What are the general skills required for a software engineer?
- (c) What are the various component of a software? Explain briefly.
- (d) Explain five current application ideas of software.
- (e) What is software maintenance? List various types of software maintenance.
- (f) What is the importance of software analysis in software development?
- 2 Attempt any four parts of the following :

 $5 \times 4 = 20$

- (a) What is iterative enhancement model?
- (b) Differentiate between validation and verification.

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[Contd...

- (c) How does software metrics help maintaining the quality of software?
- (d) What is abstraction? How does it help in design?
- (e) What do you understand by cohesion? How does it relate to software design?
- (f) Write short note on OOA for software development?
- 3 Attempt any two parts of the following: 10×2=20
 - (a) Explain in brief any five important software metrics.
 - (b) What is functional testing? Explain any two ways of performing functional testing.
 - (c) What are bottom-up and top-down approach for integration testing? Explain the condition when bottom-up approach is preferred over top-down approach.
- 4 Attempt any two parts of the following:
 - (a) Explain the concept of project scheduling and staffing in detail.
 - (b) Discuss the four distinct activities performed during risk analysis.
 - (c) What are object model, dynamic model and functional model of OMT? Explain in detail.

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5 Attempt any two parts of the following:

- $10 \times 2 = 20$
- (a) What do you understand by software reliability? Explain two reliability metrics.
- (b) What is SEI-CMM?
- (c) What is computer aided software engineering? What are different CASE tools available in the market?

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