



Printed Pages : 3

TCS-404

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

PAPER ID : 1070

Roll No.

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B. Tech.

(SEM. IV) EXAMINATION, 2007-08

SOFTWARE ENGINEERING

Time : 3 Hours]

[Total Marks : 100

- Note :
- (1) Attempt *all* questions.
 - (2) All questions carry *equal* marks.

1 Attempt any **two** of the following : **10×2**

- (a) (i) Define Software Engineering and how it is different from conventional engineering process.
- (ii) What is difference between SEI-CMM and ISO standards ?
- (b) (i) Describe about software process model.
- (ii) What is evolutionary development model and give its advantages and disadvantages.
- (c) (i) Explain what is SDLC.
- (ii) Differentiate between waterfall model and prototype model.



2 Attempt any **two** of the following :

10×2

- (a) (i) What are various requirements elicitation techniques ? Explain.
- (ii) What problems and challenges are faced while eliciting requirement ?
- (b) (i) What are the benefits of ER diagram ?
- (ii) For a Book store draw an ER diagram. (suitable assumptions may be taken)
- (c) (i) What is software quality ?
- (ii) What is software quality framework and SQA ?

3 Attempt any **two** of the following :

10×2

- (a) Explain the following :
 - (i) Coupling
 - (ii) Cohesion
 - (iii) Structure chart
 - (iv) Pseudo code
- (b) (i) What different parameters are used for estimation ?
- (ii) Explain COCOMO in detail.
- (c) Explain the following with example :
 - (i) Function Oriented Design
 - (ii) Object Oriented Design
 - (iii) Top Down Design
 - (iv) Bottom up Design.



4 Attempt any **two** of following : 10×2

- (a) What is software testing ? Explain basis path testing using flow graph analysis in detail.
- (b) Explain white box testing in detail.
- (c) What is difference between testing and debugging ? Explain regression and acceptance testing in detail.

5 Attempt any **two** of following : 10×2

- (a) What is software maintenance ? Explain Software Re-Engineering.
 - (b) What is reverse engineering ? Explain Corrective and Perfective maintenance.
 - (c)
 - (i) What is software configuration management ?
 - (ii) What is Software Version control process ? Explain.
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