



C-1865

Second Year B. C. A. (Sem. III) Examination
October / November – 2008
Software Engineering

Time : 3 Hours]

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[Total Marks : 70

Instructions :

(1)

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

Name of the Examination :

Name of the Subject :

Subject Code No. : Section No. (1, 2,.....) :

Seat No. :

S.P. Mistry
Student's Signature

1 Answer the following (any seven) 14

- (1) Explain "Effort distribution".
- (2) Comment : "DFD is useless for object oriented concept".
- (3) Differentiate between modularity and integration. Where are they observed ?
- (4) How requirements are mapped into software architecture ? Show with diagram.
- (5) Explain in brief functional independence.
- (6) Differentiate between control flow and data flow.
- (7) What is alpha testing and beta testing ?
- (8) Define "Software engineering".

2 Do as directed : [5+5+4]

(a) Attempt following :

- (1) Explain software characteristics.
- (2) Write a note on cyclomatic complexity.
- (3) Write the limitations of waterfall model and how will you overcome this limitations when you develop a system explain.

OR

- (a) Write a short-note on process specification.
- (2) Write the rules for drawing DFD and list out some clues for identifying errors in DFD.
- (3) Explain "Exhaustive testing" and "Stress testing".

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[Contd..

3 Do as directed :

(a) Answer any three :

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- 252 353 354
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- (1) What is cohesion and coupling ? Which one is better ? Explain concept of modularity.
- 355 (2) Explain design heuristic.
- (3) Write short note on SRS document with its structure.
- 293 (4) What is abstraction ? Explain the types of abstraction.
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(b) (1) Give a detailed explanation on data dictionary.

5

OR

(1) Differentiate between logical and physical DFD. Explain with example.

5

4 (a) Are black and white box testing approaches alternative of each other ? Justify. Explain any one black box testing technique.

6

(b) Answer any two :

8

(1) Define characteristic of good user interface design.

26A (2) Explain the structure of design document.

(3) Write short note on software reliability and its measures.

5 Do the following to develop a software for an international bank :

14

(1) Narrate the activities done in a bank.

(2) Give data dictionary for the said system.

(3) Draw process chart for each activities with description.

(4) Create a context level DFD, and expand up to 2nd level where ever required for the above given system.

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