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Jigo

RF-1845

**B. C. A. (Sem. III) Examination**  
**April / May – 2010**  
**305 : Software Engineering**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी.  
Fillup strictly the details of signs on your answer book.

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

Name of the Subject :  
305 : Software Engineering

Subject Code No. : 1 8 4 5 Section No. (1, 2.....) Nil

Seat No. : 306283

Student's Signature

- (2) Each question carries equal marks.  
(3) Take appropriate assumption(s) as and when require.

Q-1. Answer the following (Any Seven): [14]

1. Define Fault and Failure.
2. What do you mean by Software Quality.
3. Explain Pareto Principle.
4. What is "divide & concure" rule?
5. Compare Glass box testing with black-box testing.
6. Compare DFD with Flow chart.
7. Compare Software and Hardware.
8. Define the term: "Software Engineering".

Q-2. [14]

Create a Data Flow Model (at least up to 2<sup>nd</sup> level) with its appropriate Data Dictionary for any Show-room Dealer.

Q-3. Answer the following [Any Two] [14]

1. Explain Characteristics of SRS.
2. Write a note on Coupling.
3. Explain the translation of Analysis into Design model.

Q-4.

[14]  
[8+6]

[A] Answer the following [Any One]:

1. Which software development phase is more significant to achieve Quality? Justify?
2. What is test-case? Explain using appropriate example, how it designs?

[B] Answer the following [Any Two]

- ✓ 1. Compare Water fall model with Prototype.
2. Explain briefly the Role of System Analyst.
3. List out Testing objectives.

✓ Q-5. Attempt the following [Any Two]

[14]

1. List the circumstances under which you recommend that prototyping should be used. What are the difficulties that might arise when using that approach?
- ✓ 2. Write advantages of using SRS in detail.
- ✓ 3. What is QFD? Write its importance.