



RG-1865

Second Year B. C. A. (Sem. III) Examination

April / May – 2008

Software Engineering

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे द्वावेक निशानीवाणी विगतो उत्तरवकी पर अवश्य वपवी.
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. :

Student's Signature

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

1 Answer the following : (any seven)

14

- (1) Define fault and failure.
- (2) Write in brief on software quality.
- (3) What is "divide and concur" ?
- (4) What do you understand by physical DFD ?
- (5) Explain in brief about software characteristic.
- (6) List out some goal of software engineering.
- (7) What are Umbrella activites ?
- (8) What is the importance of Modularity ?

2 Answer the following :

14

- (A) (1) Explain characteristics of SRS.
- (2) Describe functional testing.

OR

- (B) (1) Justify with reason and example "Abstraction and Refinement are complimentary concepts".
- (2) Write a note on "SDLC effort distribution".

3 (A) Answer the following :

8

boon 308 (1) List out the steps of transform or Transaction flow.

sonhooon (2) Discuss "Design Heuristics".

(B) Answer the following : (any two)

6

boon (1) What are design specifications ?

(2) Explain the role of system analyst. →

u32 (3) Briefly explain testing objectives. →

4 Attempt any two :

(1) List the circumstances under which you recommend that prototyping should be used as means of validating system requirements. What are the difficulties that might arise when using prototyping approach ?

7

u59 (2) Explain black box testing.

7

(3) Answer the following :

(a) Write advantages of using SRS. →

4

279 (b) Define the term QFD and give its importance.

3

5 You are asked to develop a software for your college, give your assumptions for developing "Student Management System" for your college and do the following :

14

(1) Give a brief description of following modules that you will include : student attendance, Result, Student Admission and students performance.

(2) Give a deta dictionary for above all modules.

(3) Draw a context level diagram and create a data flow diagram up to 1st level separately for all the modules.