RC-3731

Second Year B. C. A. (Sem. III) Examination
March / April - 2017
302 : Software Engineering - I

Time :   Hours]　　　　　　　　　　　　　　　[Total Marks : **70**

Instruction :

1   Answer in short :　　　　　　　　　　　　　　　　**14**

    (1)   What is Software ?

    (2)   Define coincidental cohesion.

    (3)   What is software architecture ?

    (4)   Define fan in and fan out.

    (5)   What is procedural abstraction ?

    (6)   What is software engineering ?

    (7)   What is Pancake Structure ?

2   Answer the following questions : (any two)　　　　**14**

    (a)   Discuss different software applications.

    (b)   Explain Developer and Programmer Myths.

    (c)   Explain the prototype model. Also write its advantages and limitations.

3   Explain following :

    (a)   Characteristics of Software Requirement Specification.   **7**

<div align="center">OR</div>

    (a)   Various components of SRS.   **7**

(b) Analysis Model with diagram. 7

OR

(b) Requirement gathering techniques. 7

4 Answer the following :

(a) Explain different types of coupling. 7

OR

(a) Define Control Hierarchy. Also explain different types 7
of partitioning.

(b) Explain Transition from Analysis to Design Model. 7

OR

(b) Explain design heuristics. 7

5 (a) Draw a DFD for Supermarket Stock System. 10

OR

(a) Draw a DFD for Online Railway Reservation System. 10

(b) Write Data Dictionary for above DFD. 2

(c) Write Process Specification for above DFD. 2

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