RAN-3537

Second Year BCA Examination

March / April - 2019

302- Software Engineering-I (New)

Time: 3 Hours]   **[Total Marks: 70**

સૂચના : / Instructions

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of ☛ signs on your answer book

Name of the Examination:

☛ **Second Year BCA**

Name of the Subject :

☛ **Software Engineering-I**

Subject Code No.: **3** **5** **3** **7**

Seat No.:

Student's Signature

Q-l Answer in short. (Any Seven)   **14**

1. What is Software?

2. Define data coupling?

3. What is Zero level in DFD? Give an example.

4. What is Modality?

5. What is functional independence?

6. What is Horizontal Partitioning?

7. What is backward traceability?

8. What is problem analysis?

Q-2 Answer the following questions.

    (a)   Explain Waterfall model with its advantages and disadvantages.   **7**

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

    (a) Explain Incremental model with its advantages and disadvantages.   **7**

    (b) Discuss software characteristics with diagram.   **7**

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

    (b) Explain Management and Developer myths.   **7**

Q-3 Answer the following:

    (a)   Explain the structure of SRS.   6

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

    (a) Explain the elements of analysis model.   6

    (b) Explain the characteristics of SRS.   8

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

    (b)   Explain the needs of SRS.   8

Q-4 Write note on following (any two)   **14**

    1. Design concepts.

    2. Design principles.

    3. Different types of cohesion.

Q-5 (a) Draw a DFD for Payroll Management System.   **10**

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

    (a) Draw a DFD for Hospital Management System.   10

    (b) Write Data Dictionary for above DFD.   2

    (c) Write Process Specification for above DFD.   2

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