Total Marks : 100

B1.3-R5 : SOFTWARE ENGINEERING

NOTE :

- 1. Answer question 1 and any FOUR questions from 2 to 7.
- 2. Parts of the same question should be answered together and in the same sequence.

Total Time : 3 Hours

- 1. (a) What are the advantages and disadvantages of iterative software development model ?
 - (b) What is data dictionary ? Explain.
 - (c) What is the purpose of data flow diagrams ?
 - (d) What are the common activities in design process ?
 - (e) What is UML ?
 - (f) What is a Test Suite ?
 - (g) Differentiate between Quality Assurance v/s Quality control. (7x4)
- **2.** (a) Explain in detail about Object-oriented design.
 - (b) Difference between Functional and Non-Functional Requirements.
 - (c) What is software architecture ? Describe in detail different types of software architectural styles with illustrations. (6+6+6)
- **3.** (a) Discuss the importance of software requirement specification. Explain characteristics of a good SRS.
 - (b) What do you understand by DFD ? Explain basic blocks, which are used to build DFD with suitable example. (9+9)
- **4.** (a) Describe the following in brief :
 - (i) Coupling
 - (ii) Cohesion
 - (b) Define the difference between black-box testing and white box testing. (9+9)
- 5. (a) What is software maintenance ? Discuss the different types of software maintenance.
 (b) Explain various software configuration management activities. (9+9)
- 6. (a) What do you mean by term re-engineering ? Why is it required ? Discuss.
 - (b) Distinguish between Functional oriented designs and object oriented design.
 - (c) Give the details of quality parameters which are used in a software system. (6+6+6)
- 7. (a) Define the meaning of software quality and detail the factors which affects the quality not productivity of a software product ?
 - (b) What is software testing ? What are software testing objectives ? Discuss various types of testing in detail. (9+9)

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