

This question paper contains 3 printed pages]

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S. No. of Question Paper : 9636

Unique Paper Code : 62347626

HC

Name of the Paper : Software Engineering

Name of the Course : B.A. (Programme) : Computer

Application-DSE-4

Semester : VI

Duration : 3 Hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

The paper has two sections. Section A is compulsory.

Attempt any five questions from section B.

Parts of a question must be answered together.

Section A

1. (i) What are the differences between the student software and the industrial strength software ? 3
- (ii) "An SRS provides a reference for validation of the final product". Justify the statement. 3

P.T.O.

- (iii) List any *three* essential attributes of a good software product. 3
- (iv) What does ETVX stand for ? 2
- (v) Define the terms: Reliability and Maintainability. 2
- (vi) What is the purpose of a data flow diagram ? Explain with a suitable example. 4
- (vii) What is a prototyping Process Model ? Under what circumstances, it is recommended ? 4
- (viii) Explain black box testing method. 4

Section B

- 2 (a) Describe an early defect removal in the context of the software process. 5
- (b) Discuss the components Software Processes. 5
- 3 (a) Describe predictability in the context of the software process. 5
- (b) What is Software Requirement Specification document (SRS) ? List and describe any *two* characteristics of SRS. 5
- 4 (a) Explain phases of Software development process. 5
- (b) What is the main goal of the inspection process ? Explain. 5

- 5 (a) What is an Iterative process model ? Under what circumstances, it is recommended. 5
- (b) List advantages, disadvantages of Waterfall model and when to use it ? 5
- 6 What does the capability maturity model (CMM) determine ? Explain its *five* capability Levels. 10
- 7 (a) What are different levels of testing and their goals. 5
- (b) Why is the configuration management process needed in addition to the development process ? 5
- 8 Differentiate between the following :
- (a) Error, fault and failure 6
- (b) Quality and Productivity 4