

This question paper contains 4 printed pages]

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S. No. of Question Paper : 9609

Unique Paper Code : 62347626

HC

Name of the Paper : Software Engineering

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

DSE-3

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) There are two types of metrics used for software development, give their names. Define each. 3

P.T.O.

- (ii) How does a phased process help in achieving high Quality and Productivity, when it seems that we are doing more tasks in a phased process as compared to an ad-hoc approach ? 3
- (iii) What are functional and non functional requirements in context of software requirement analysis ? 3
- (iv) List any *four* essential attributes of a good software product. 4
- (v) What are the drawbacks of Waterfall model ? 3
- (vi) Briefly describe the block box testing. 3
- (vii) What do you mean by psychology of testing ? 3
- (viii) "Problem analysis should be the integral part of software engineering process". Justify this statement. 3

Section B

- 2. (a) What are major software engineering challenges, explain any two in detail. 5
- (b) Briefly describe the software management process. 5

- 3 (a) What is time-boxing process model ? Under what circumstances, it is recommended ? 5
- (b) What is an iterative model in software development process ? Explain its advantages. 5
- 4 (a) Explain software configuration management process in detail. 5
- (b) Describe any *two* characteristics of Software Requirement Specification document. 5
- 5 (a) What is the use of Data Flow Diagram (DFD) in problem analysis ? Explain DFD with a suitable example. 5
- (b) What are various phases of software development process ? Explain any *two* in detail. 5
- 6 (a) Describe any two components of Software Requirement Specification document. 5
- (b) What does the capability Maturity Model (CMM) determine ? Explain. 5

- 7 (a) What is the significance of boundary analysis testing ? 5
- (b) Show and briefly describe the levels of software testing with the help of a diagram. 5
- 8 (a) Write the general structure of a requirement document. 5
- (b) How prototyping is used in requirement analysis ? 5