

PC-1027/MJ

F-9/2051

SOFTWARE ENGINEERING

Paper – CSM-368

(Semester–VI)

Time : Three Hours]

[Maximum Marks : 30

Note : Attempt *five* questions in all, selecting *two* questions from each of the Section A and B of the question paper and the entire Section C.

SECTION – A

- I. Discuss the waterfall model in detail giving its merits and demerits. (4)

- II. Discuss the following in brief :
 - (a) Test Driven Development. (2)
 - (b) Effort distribution. (2)

- III. What do you mean by software project planning? What are the major constituents of a project plan? Elaborate. (4)

- IV. What are the central problems in software requirement specification? What are the basic activities performed during the requirement phase? Discuss the characteristics of software requirement specification. (4)

SECTION – B

- V. Define term "Modularization". Why a system design with high cohesion and low coupling is desired? Also discuss in brief various types of couplings. (4)
- VI. What do you mean by structured design methodology? Discuss in detail. (4)
- VII. What is testing? Why testing is required? Discuss in brief about integration testing and acceptance testing? (4)
- VIII. Write short notes on the following :
- (a) Advantages of structured programming. (2)
 - (b) Test case execution and analysis. (2)

SECTION – C

- IX. (a) What is software engineering? (2)
- (b) What is the role of metrics in software engineering? (2)
- (c) What are the characteristics of democratic team structure? (2)

- (d) What is meta data? (2)
 - (e) What is abstraction? (2)
 - (f) What do you mean by recursion? (2)
 - (g) Write short note on reliability. (2)
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