

(01/13-II)

2372

B.C.A. (Third Year) EXAMINATION

(New Scheme)

SOFTWARE ENGINEERING

302

Time : Three Hours

Maximum Marks : 70

Note : Attempt any *Five* questions. All questions carry equal marks.

1. Describe the following :
 - (i) Software characteristics 4
 - (ii) Software process 5
 - (iii) Software crisis 5
2. Describe the following life cycle models :
 - (i) Linear sequential model 4
 - (ii) Build and fix model 5
 - (iii) Iterative enhancement model. 5

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8. Define and describe the following terms/
 concepts :

- (i) Software life cycle 3
- (ii) Data flow diagram 4
- (iii) Data dictionary 3
- (iv) ER diagram. 4

3. What do you understand by project planning ?
 Also describe the "size estimation" and "cost
 estimation". 14

4. Explain the following :

- (i) Requirement elicitation and analysis 7
- (ii) Requirement analysis tools. 7

5. What are the goals of software designing ?
 Also discuss the role of modularity principle
 in software design. 14

6. What is Software Testing ? Discuss various
 testing strategies and testing techniques. 14

7. Describe the following models of software
 maintenance :

- (i) Quick-fix model 7
- (ii) Iterative enhancement model. 7