

(01/13-II)

1442

B.C.A. (Third Year) EXAMINATION

(Old Scheme)

SOFTWARE ENGINEERING

302

Time : Three Hours *Maximum Marks : 100*

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

1. Describe the following :
 - (i) Software characteristics
 - (ii) Software process
 - (iii) Software crisis

2. Describe the following life cycle models :
 - (i) Linear sequential model
 - (ii) Build and fix model
 - (iii) Iterative enhancement model.

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

4. Explain the following :
(i) Requirement elicitation and analysis
(ii) Requirement analysis tools.

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

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

7. Describe the following models of software maintenance :
(i) Quick-fix model
(ii) Iterative enhancement model.

8. Define and describe the following terms/concepts :

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