

(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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**P.T.O.**

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

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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.