

**Exam.Code:0924**  
**Sub. Code: 6853**

**1058**  
**B.E. (Information Technology)**  
**Sixth Semester**  
**ITE-644/632: Software Engineering**

Time allowed: 3 Hours

Max. Marks: 50

**NOTE:** Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Define the following terms:-

- a) Software development life cycle
- b) Software scope
- c) Metrics
- d) Software sizing
- e) Task set
- f) Formal technical review
- g) Verification and validation
- h) Cyclomatic complexity
- i) Refactoring
- j) Requirement elicitation

(10x1)

**UNIT - I**

II. a) Compare the empirical process models with agile process model.

b) Explain various project management activities. (5,5)

III. a) Explain various software size estimation techniques.

b) Discuss analysis modelling with any two examples. (5,5)

IV. a) Explain the various requirement engineering tasks.

b) Explain the task network of the task flow for a project. (5,5)

**UNIT - II**

V. a) What are the various characteristics of testability

b) Explain the block box testing techniques. (5,5)

P.T.O.

(2)

- VI. Explain the process of translating the analysis model into the design model. (10)
- VII. a) How is software quality defined? What metrics can be used for a software, explain with example.
- b) Write a short note on:-
- i) CASE tools
  - ii) Unit testing techniques
- (6,4)

x-x-x