1019
B. E. (Information Technology)
Sixth Semester
ITE-644: Software Engineering

Time allowed: 3 Hours

Max. Marks: 50

NOTE: *Attempt* <u>*five*</u> *questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.*

x-x-x

I.   Define the following terms:-

   a) System engineering Vs Software engineering

   b) Validation and verification

   c) Complexity of a software

   d) Measurement, metrics and indicator

   e) Software quality metrics   (5x2)

UNIT – I

II.   How requirement engineering process is accomplished.   (10)

III. a) Define various size estimation techniques

   b) Define a task set for a software project.   (5,5)

IV. a) What are the activities involved in project management.

   b) Discuss the elements of analysis model.   (5,5)

UNIT – II

V.   Compare the white box and black box testing techniques.   (10)

VI. a) Explain various software testing strategies.

   b) Discuss validation testing with its elements.   (5,5)

VII. a) Discuss the metrics for design model.

   b) Write a short note on:-

     i) CASE tools

     ii) System testing techniques   (6,4)

x-x-x