

# 2001 KERALA UNIVERSITY M.C.A

FOURTH SEMESTER M.C.A DEGREE EXAMINATION, JUNE/JULY 2001

SOFTWARE ENGINEERING (NEW SCHEME)

TIME : 3 HOURS

MARKS : 75 MARKS

## MODULE I (each question carries 12 1/2 marks)

1. (a) What are the most widely discussed software engineering paradigms? Explain any one of them, bring out its features at various stages of software development?  
(b) What are the objectives of the software planning?
2. (a) Explain Process, methods and tools?  
(b) Discuss various software process tools?
3. (a) Performance is an important consideration during planning. Discuss how performance can be interpreted differently depending on the software application.  
(b) Explain empirical estimation models.

## MODULE -II (each question carries 12 1/2 marks)

4. (a) Distinguish between classes and objects?  
(b) What is Inheritance?  
(c) Consider a typical GUI. Define a set of classes for the interface entities that typically appear in the GUI
5. (a) Describe any two methods for object Oriented Design  
(b) Discuss how object oriented databases can be used to develop the data management component?
6. (a) Write note on designing algorithms and data structures for object oriented software  
(b) "The object oriented approach defines the object as a program component. Illustrate.