COURSE CODE: 10M11CI212

MAX. MARKS: 15

COURSE NAME: Advanced Operating System

COURSE CREDITS: 3

MAX. TIME 1 HR

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. Why would you design a system as a distributed system? List some advantages of distributed systems and explain how it is different from NOS. [3 Marks]

2. Explain briefly geographical distribution, communication in 2 sentences. [2 Marks]

3. (a) With examples describe Access, Location and Migration transparency in a distributed system. [3 Marks]

   (b) With examples describe what Middleware is. [2 Marks]

4. Consider Message oriented transient communications using Socket and using Message - Passing Interface

   a. Which layers they are designed for? [1 Marks]

   b. Which types of application styles/models they are suitable for? [1 Marks]

5. You are asked to explain the following architecture in which a service using several application/compute servers serves client requests

   a. How can this architecture help to improve the performance of the service? [2 Marks]
   b. How can this architecture help to reduce the failure rate of the service? [1 Marks]