SEAT No.:	

P108

[Total No. of Pages :2

APR - 18/ BE//Insem. - 76

B.E. (Information Technology)

DISTRIBUTED SYSTEM

(2012 Course) (Semester - II) (414461) Time: 1 Hour] [Max. Marks:30 Instructions to the candidates: Answer Q.1, or Q.2, Q.3, or Q.4, Q.5 or Q.6. Figures to right indicate full marks. 2) Neat diagrams must be drawn wherever necessary. 3) Assume suitable data, if necessary. 4) Explain the models based on fundamental properties that are common in *Q1*) a) all of the architectural models. [6] What is Scalability? Explain the design challenges of Scalable Distributed b) Systems. [4] Explain distributed multimedia systems in brief and justify with example *02*) a) that webcasting is an examples of distributed multimedia systems. b) Define Transparency and Briefly Explain the various forms of Transparency in a Distributed Systems. Define the concept of Socket. Explain the issues and failure model with *Q3*) a) respect to Stream Communication. [6] Explain the Message Queues considering programming model offered b) by message queueing systems. [4] OR Define the concept of Socket. Explain the issues and failure model with **Q4)** a) respect to Datagram Communication. [6] What is Marshalling? How marshalling and serialization is used in b) communication between a client and a server? [4]

Q5) a)		ain the following with respect to Distributed Object Middlewa ework:	re 6]
	i)	Inter-object communication	

- ii) Lifecycle management
- iii) Activation and Deactivation.
- b) State the applications of Web Services. Differentiate between SOAP and REST Web Services. [4]

OR

- **Q6)** a) What are the issues with object-oriented middleware? [6]
 - b) Explain two main characteristics of distributed event-based systems.[4]