

FACULTY OF INFORMATICS

B.E. 4/4 (IT) I – Semester (Main) Examination, Dec. 2014 / Jan. 2015

Subject: Distributed Systems (Elective – II)

Time: 3 hours

Max. Marks: 75

Note: Answer all questions from Part - A. Answer any FIVE questions from Part - B.**PART – A (25 Marks)**

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|----|---|---|
| 1 | What is open distributed system? | 2 |
| 2 | What is transparency in distributed system? | 3 |
| 3 | What is distributed objects in RMI? | 3 |
| 4 | Explain the role of message broker in message queuing system. | 2 |
| 5 | What is stateful server? | 2 |
| 6 | Define Name resolution. | 3 |
| 7 | What is Globe local objects? Explain their types. | 3 |
| 8 | Explain the use of portable object adapter in CORBA. | 2 |
| 9 | Explain the characteristics of multimedia data. | 3 |
| 10 | What is real-time scheduling? | 2 |

PART – B (50 Marks)

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| 11 | a) Explain the main differences between network operating system and distributed operating system. | 5 |
| | b) Explain the client-server architecture in detail. | 5 |
| 12 | a) Describe about the basic RPC operation. | 5 |
| | b) Explain about message oriented transient communication. | 5 |
| 13 | a) Explain the role of software agents in distributed system. | 5 |
| | b) Discuss about the implementation of namespace. | 5 |
| 14 | a) Explain CORBA services in detail. | 5 |
| | b) What is Globe? Explain the steps of binding a process to an object in globe. | 5 |
| 15 | Discuss the quality of service management in distributed multimedia system in detail. | 10 |
| 16 | a) Explain the role of middleware in distributed system. | 5 |
| | b) What is stream oriented communication? Explain. | 5 |
| 17 | Write short notes on the following : | |
| | a) Threads in distributed system | 5 |
| | b) Security in DCOM | 5 |
