Exam. Code : 206703

Subject Code :

3682

## M.Sc. Computer Science 3rd Semester

## NETWORKING PROGRAMMING

Paper: MCS-305

Time Allowed—3 Hours [Maximum Marks—100

Note:— Attempt five questions in all. All questions carry equal marks.

- 11. Draw and explain Internet socket address structure in respect to UNIX Network Operating System.
- Discuss following concepts:
  - (a) Protocol independence and its programming.

10

(b) Super servers, their functions and implementation.

10

- (a) Discuss the process of TCP connection 3. establishment and termination.
  - (b) Overview of OSI model.

20

- Discuss following:
  - (a) TCP port numbers and corresponding services.

10

10

(b) Wrapper functions and error handling.

(Contd.)

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5.	nee	scuss the concept of concurrent served/role of signal handling in concurrent visions.		
6.	Discuss following topics:			
	(a)	TCP socket system calls and their function	tions	S.
		Paper: NICS-305		10
	(b)	Protocol usage by common Internet appli	icati	ons.
		- Aitempt five questions in all. All questi		10
7.	What do you understand by following:			
	(a)	TCP client-server communication.		10
	(b)	Socket options ?		10
8.	(a)	Describe interoperability of IPv4 and IP	v6.	10
	(b) Write and explain basic name and addressing conventions in socket/network programming.			
		su Super servers, their functions a reamplish		10
		Sestablishment and economiston.		
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