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Exam. Code : 206703 Subject Code : 4694

M.Sc. Computer Science 3rd Semester NETWORK PROGRAMMING Paper—MCS-305

Time Allowed—3 Hours] [Maximum Marks—100 Note :- Candidates are to attempt *five* questions, *one* from each Section. Fifth question may be attempted from any Section. All questions carry equal marks.

SECTION-A

- 1. (a) Discuss the concept of Zombies and Daemon Processes. 10 10
 - (b) How OSI model is used for networks? Explain. s 10 while show notes on the following concepts :
- 2. Discuss the following concepts :
 - (a) Protocol independence 10
 - 10 (b) Socket address structures.

SECTION-B

- What is the procedure for TCP connection 3. establishment? Discuss the working of protocol usage by applications. 20
- Explain the following concepts by taking suitable 4. example :
 - (a) Concurrent server usage 10
 - (b) Significance of port numbers for TCP addressing. 10

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(Contd.)

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Section-C

Discuss the procedure for UDP connection establishment and the working of protocol usage by applications.

20

- Elaborate the following concepts used for UDP : 6.
- (a) Working of echo client (b) Echo server. 10
- each Section. Fifth question may be attempted from SECTION-D

- 7. (a) What is the structure used for socket address ? Explain. Explain. (a) 10 (c) and course (c) 10
 - (b) Discuss the concept of byte ordering for socket 10 How OSI model is used for ner assessed to 10
- 8.⁰³ Write short notes on the following concepts :
 - (a) IPv4 and IPv6¹^(a) game following concepts and IPv6¹ (a)
 - (a) Protocol independence gained (a)
 (b) I/O multiplexing.
 (c) Socket address smoothies 10

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