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Roll No. : .....

**322733(22)**

**B. E. (Seventh Semester) Examination,**

**Nov.-Dec. 2021**

**(New Scheme)**

**(CSE Branch)**

**NETWORK PROGRAMMING**

***Time Allowed : Three hours***

***Maximum Marks : 80***

***Minimum Pass Marks : 28***

***Note : Attempt all five questions. Each question has 4 parts (a), (b), (c) and (d.) Part (a) is compulsory carrying 2 marks and attempt any two part from (b), (c) and (d) carrying 7 marks each.***

**Unit-I**

1. (a) What is IP Address? 2
- (b) Describe Network Layered Architecture and their functionality with suitable diagram. 7

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- (c) Draw TCP and IP headers. Compare TCP and UDP. 7
- (d) Describe the working principle of Web Server. 7

**Unit-II**

2. (a) Define socket structure. 2
- (b) Describe simple TCP Client Server Architecture with diagram. 7
- (c) Describe I/O Multiplexing using select() and poll() function. 7
- (d) Describe fork() and EXCE() system call with example. 7

**Unit-III**

3. (a) What is WSA? 2
- (b) Describe I/O models and blocking time out techniques in windows socket application. 7
- (c) Describe WINSOCK Model. What are the new API DLL issues? 7

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- (d) Write down basic steps for developing client server application using WINSOCK API. 7

**Unit-IV**

4. (a) What is Firewall? 2
- (b) Describe WAP architecture and its services. 7
- (c) What is CGI? Develop any simple CGI program. How can we insert a CGI program in HTML file. 7
- (d) Explain RMI layer architecture and its basic components. 7

**Unit-V**

5. (a) What is protocol? 2
- (b) Describe StringTokenizer class in Java. Write a program to find all tokens from a sentence. 7
- (c) How can you use URL class in java to retrieve web information from URL. 7
- (d) Develop a simple TCP client and TCP server program using java. 7