No. of Printed Pages: 2

Time: 2 hours

CS-69

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P.T.O.

Maximum Marks: 60

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Pre-Revised)

Term-End Examination

□□31□ December, 2017

CS-69: TCP/IP PROGRAMMING

| Not | te: | Question number 1 is compulsory. Answer three questions from the rest. | any |
|-----|--------------|---|-----|
| 1. | . (a) | Given the network address 132.10.0.0., find its class and write the range of its address class. | 3 |
| | (b) | What is DNS ? Explain DNS message format. | 6 |
| | (c) | Give any two examples of how computers can be connected together. | 4 |
| | (d) | Explain how TCP manages corrupted segments and lost acknowledgements with the help of illustration. | 5 |
| | (e) | What is a Socket? Explain any two types of sockets. | 5 |
| | (f) | Explain the concept of three-way handshaking mechanism for connection establishment in TCP. Use an appropriate diagram for explanation. | 7 |

| 2. | (a) | What are the different commands used to copy files between FTP clients and FTP server? Also write the syntax and use of any two of these commands. | 5 |
|-----------|------------|--|----|
| | (b) | List and explain any four messages used in ICMP. | 5 |
| 3. | - | ain the purpose and importance of the ving IP header fields: | 10 |
| | (a) | IP Header Length | |
| | (b) | Protocol | |
| | (c) | Time to Live | |
| | (d) | Identification | |
| | (e) | Data | |
| 4. | (a) | What is Subnet Mask? Explain with the | |
| | | help of an example. | 5 |
| | (b) | What is UDP ? Explain the basic characteristics of UDP. | 5 |
| 5. | Diffe | rentiate between the following: | 10 |
| | (a) | Half Duplex and Full Duplex | |
| | (b) | Authentication and Authorization | |
| | (c) | Class-C and Class-D IP Addresses | |
| | (d) | Direct Routing and Indirect Routing | |
| | | | |