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| | Questic | n Pa | per (| Cod | e : ' | 707 | 93 | | | |
| M.C.A. | DEGREE EXA MC 53 | Thi 02 – CO | rd Sem | ester ER NE | TWO | | CEM | BER | 2019 |) |
| Time : Three H | ours | | | | | | Maxi | mum | : 100 | Marks |
| | | Answe | er ALL q | uestion | ıs | | | | | |
| | | | PART - | A | | | (| 10×2 | =20] | Marks) |
| 1. List some of WAN? | f the factors tha | t determi | ine whet | her a c | ommu | inicati | ion sys | stem | is a L | AN |
| 2. What are t | he three criteria | a necessa | ry for ar | n effect | ive ar | nd effi | cient | netw | ork? | |
| 3. Distinguish | n between forwa | rd error | correction | n and e | error o | correct | tion by | retr | ansm | ission. |
| 4. What are t | he common star | ndard of | Etherne | t imple | ment | ation ' | ? | | | |
| 5. What is the | number of bits | in an IP | V6 addre | ess and | whic | h type | of ser | vice | is pro | vided? |
| | is no need for th | | | | | | | | | |
| | e maximum and | | | | | | | | | |
| | h between open | | | | | | | at car | n prev | ent |
| 9. What are t | the two main ca | tegories o | of DNS r | nessag | es? | | | | | |
| 10. How is HT | TP similar to F | TP? | | | | | | | | |
| | | | PART - | В | | | | (5×1 | 3=65 | Marks) |
| | rize the various n detail with ne | eat block | | | cs?E | xplain | the co | mm | inica | tion (13) |
| | (OR) | | NOT TO | | . 1 | | | | | (13) |
| b) With a | rchitecture expl | am the I | | rotocoi | in de | tan. | | | | (13) |

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70793 12. a) With an example explain the concept of error detection and correction mechanism. (OR) b) Briefly discuss about Ethernet, token ring and Bluetooth with necessary (13)illustrations. 13. a) i) Consider an IP packet with a length of 4500 bytes that includes a 20 byte IPV4 header and 40 byte TCP header. The packet is forwarded to an IPV4 router that supports a Maximum Transfer Unit (MTU) of 600 bytes. Assume that the length of the IP header in all the outgoing fragments of this packet is 20 bytes. Compute the fragment offset value stored in the third fragment. (10) ii) Distinguish between circuit switching and packet switching. (3) b) With a suitable network scenario of minimum 5 routers explain the logic of distance vector routing and link state routing algorithms. 14. a) Elucidate in detail the concept of transmission using RTP and User Datagram Protocol. (13)(OR) b) Explain the concept of connection establishment. Briefly explain the any one flow control mechanism involved in transport layer. (13)15. a) In asymmetric key cryptography, how do you think two persons can establish two pairs of keys between themselves. Also, elaborate the concept of RSA algorithm? b) How is HTTP related to WWW? Give an overview of the architecture, client, (13)server and cookies of WWW. PART - C (1×15=15 Marks) 16. a) i) Enumerate the functions of the various layers of OSI models with neat (10)ii) Do port addresses need to be unique? Why or why not? Why are port (5) addresses shorter than IP addresses? (OR) b) Consider the network topology of an institution and explore the various protocols involved in each layer while accessing a web page from a remote server. Assume that the client browser is accessing internet for first time. (15)

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