QP CODE: 220200945

220200945

Reg No : .....

Name : .....

M.C.A. DEGREE EXAMINATION, MARCH 2022

Second Semester

Core - MCACT203 - COMPUTER NETWORKING WITH TCP/IP

2020 Admission Onwards

F2055F47

Time: 3 Hours Maximum: 75 Marks

Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1. Explain transport layer protocols in TCP/IP?
2. Describe sliding window protocol?
3. Explain the frame format of Ethernet.
4. Illustrate BSS of IEEE 802.11(Remember).
5. Explain about network address translation and how it helps in address depletion.
6. Illustrate the steps of header transition procedure from IPV6 to IPV4.
7. Examine briefly informational messages in ICMPV6.
8. Explain the main idea of UDP.
9. Discuss the connection management in TCP.
10. Discuss Nagle's Algorithm.
11. Elaborate the concept of DNS resolution.
12. What is FTP?

(10×3=30 marks)

Part B

*Answer **all** questions*

*Each question carries **9** marks*

13. a) 13a) Explain flow control mechanisms in data link layer?

OR

b) 13b) Explain error control mechanisms in data link layer?

14. a) 14a) Breifly explain different switching methods.

OR

b) 14 b)What are the services provided by the Network layer?Explain.

15. a) 15a) Explain about address space in IPV6.

OR

b) 15b) Explain two-level and three level hierarchy in classfull addressing.

16. a) 16a) Briefly explain the services offerd by Transport Layer.

OR

b) 16b) Discuss about the timers used in TCP.

17. a) 17a) Explain DNS and how its work on internet.

OR

b) 17b) Discuss about Telenet command format with different options.

(5×9=45 marks)