Reg. No…….. Name……

B. C. A. DEGREE END SEMESTER EXAMINATION OCTOBER 2017

SEMESTER – 3: BACHELOR OF COMPUTER APPLICATIONS (CORE COURSE)

COURSE: 16U3CRBCA10, COMPUTER NETWORKS

(For Regular - 2016 Admission)

Time: Three Hours Max. Marks: 75

PART - A

(Answer ***all*** questions. Each question carries 1 mark)

1. List out the three types of Networks.
2. Explain Bus Topology.
3. List out the functions of Bridge.
4. How does a Router differ from a Bridge?
5. Define SMTP.
6. List out the five Application layer protocols
7. What is a WAN?
8. List out the major characteristics of ISDN networks.
9. What is Cellular Technologies?
10. Define Firewall. (1 x 10 = 10)

PART - B

(Answer any ***eight*** questions. Each question carries 2 marks)

11. Draw the UDP segment structure diagram.
12. Define ICMP protocol.
13. List out the benefits of wireless technology.
14. Explain any two wireless network components
15. Explain the different IPV4 address class and its rage.
16. Draw the TCP segment structure diagram.
17. Explain Tunneling.
18. Discuss Authentication and Authorization
19. Explain : 1) Ping and 2) IPconfig
20. List out the three goals of Operating System. (2 x 8 = 16)

PART - C

(Answer any ***five*** questions. Each question carries 5 marks)

21. Differentiate between TCP and UDP.
22. Explain the Client/Server Architecture.

23. Explain the main functions of NIC.
24. With the help of a diagram describe FTP.
25. Differentiate between Circuit Switching and Packet Switching.
26. Define VPN.
27. Explain SONET with diagram. (5 x 5 = 25)

PART - D

(Answer any ***two*** questions. Each question carries 12 marks)

28. Illustrate the function of each layers of ISO/OSI Reference model with the help of a neat diagram.
29. Explain IPV4 and IPV6 Datagram format with neat diagrams.
30. Describe the various Transmission Media used in networks.
31. Compare the UNIX and LINUX System Structures.

(12 x 2 = 24)

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