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Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2024

Fourth Semester

B.Sc. Computer Science

Core Course—COMPUTER NETWORKING AND INTERNET

(2013–2016 Admissions)

Time : Three Hours

Maximum Marks : 80

Part A

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

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|------------------------|--|
| 1. What is MAN ? | 2. What is ISP ? |
| 3. What is UTP ? | 4. How many bits does IPV4 have in terms of bits ? |
| 5. What is PSTN ? | 6. What is CSMA/CD ? |
| 7. What is SNMP ? | 8. What is UDP ? |
| 9. What is Mobile IP ? | 10. What is private key ? |

(10 × 1 = 10)

Part B

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

- | | |
|-----------------------------|-------------------------------|
| 11. What is Ethernet ? | 12. What is star topology ? |
| 13. What is STP ? | 14. What is MAC ? |
| 15. What is TFTP ? | 16. What is a frame relay ? |
| 17. What is a cable modem ? | 18. What is NAT ? |
| 19. What is Wireless LAN ? | 20. What is a LEO satellite ? |
| 21. What is XML ? | 22. What is RTSP ? |

(8 × 2 = 16)

Part C

*Answer any six questions.
Each question carries 4 marks.*

23. Briefly, explain the 7 layers of ISO OSI model.
24. Briefly, explain the construction and working of a coaxial cable.

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25. Briefly, explain the UDP protocol and its layers.
26. Briefly, explain the difference between IPV4 and IPV6.
27. Briefly, explain the shortest path algorithm for routing.
28. Briefly, explain the DHCP protocol.
29. Briefly, explain the address format of 3 types of IP addresses.
30. Briefly, explain the functions of DNS with examples.
31. Briefly, explain the FTP interconnection process.

(6 × 4 = 24)

Part D

*Answer any **two** questions.
Each question carries 15 marks.*

32. Explain TCP/IP model in detail with the functionality and components of each of its layers with diagrams and illustrations.
33. Explain distance vector routing protocol with diagrams and illustrations.
34. Explain the IEEE 802.11 protocol stack and its various layers.
35. Explain MIME in detail with diagrams and illustrations.

(2 × 15 = 30)

