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SDCCA403

IV Semester B.C.A. Degree Examination, June/July - 2026

(SEP Scheme Freshers)

COMPUTER APPLICATIONS

Computer Networks

NEW HORIZON COLLEGE LIBRARY KASTURINAGAR BANGALORE-43

Time : 3 Hours Maximum Marks : 80

Instructions :

Answer all the Sections.

SECTION - A

I. Answer any Ten questions. Each question carries 2 marks. (10×2=20)

1. Define Computer Network.
2. What is HTTP?
3. Define Bandwidth of digital signal.
4. Define an Error in computer network.
5. What is Automatic Repeat Request (ARQ)?
6. Define Choke packet.
7. What is Single Parity Check?
8. What is Hub?
9. Name two applications of UDP.
10. List the two advantages of LAN.
11. Define Switching.
12. Define Browser.

SECTION - B

II. Answer any Six questions. Each question carries 5 marks. (6×5=30)

13. What are the Radio Waves and explain.
14. Explain controlled flooding.
15. What is TCP/IP and explain.
16. What are the differences between physical and wireless media?
17. Write a short note on Congestion control.
18. Describe the key characteristics of a 1 bit sliding window protocol.
19. Explain the design issues of network layer.
20. Explain the two types of flooding.

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SECTION - C

III. Answer any Three questions. Each question carries 10 marks. **(3×10=30)**

21. a) List the differences between LAN and WAN. **(5)**
    b) Define selective repeat protocol and explain **(5)**
22. Explain TCP and UPD in detail. **(10)**
23. Explain Checksum Error Detection method of computer network in detail. **(10)**
24. a) Explain the workings of Link state routing algorithms. **(5)**
    b) Write a note on FTP. **(5)**
