B.M.S COLLEGE FOR WOMEN, AUTONOMOUS
BENGALURU – 560004
SEMESTER END EXAMINATION – MARCH/APRIL- 2023

B.C.A – III Semester

COMPUTER NETWORKS
(NEP Scheme 2021-22 onwards)

Course Code: BCA3DSC08   **QP Code: 3031**
Duration: 2 ½ Hours   **Max. Marks: 60**

Instructions: Answer all the sections.

SECTION-A

Answer any TEN questions. Each question carries TWO marks.   **(10X2=20)**

1. Define computer network
2. List out any two goals of a computer network.
3. Define WWW.
4. Mention the types of errors.
5. What is redundancy?
6. What is DHCP?
7. What is ALOHA?
8. Define the term medium access control mechanism.
9. What are the types of class full addressing?
10. What is DNS?
11. What do you mean by ARP?
12. Define congestion.

SECTION-B

Answer any SIX questions. Each question carries FIVE marks.   **(6X5=30)**

13. Write a short note on ARPANET.
14. Explain in detail about the Time division Multiple Access.
15. Explain Transmission modes with a neat diagram.
16. Write a short note on Medium Access Control.
17. Difference between CSMA/CA and CSMA/CD.
18. State various network features. Explain any one in detail.
19. Compare IPV6 and IPV4.
20. Explain structure of IP frame header.

SECTION-C

Answer any ONE questions each question carries TEN marks.   **(1X10=10)**

20. Explain OSI Reference Model with a neat diagram.
21. Explain the type's topologies of the network.
22. Write Dijkstra's shortest path algorithm.

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