



B.C.A. III Semester Degree Examination, March/April - 2023

COMPUTER SCIENCE

**Paper No : DSC 9 : Computer Communication and Networks
(NEP)**

Time : 2 Hours

Maximum Marks : 60

SECTION - A

I. Answer all the questions. Each question carries 1 mark. 10x1=10

1. (a) What is computer network ?
- (b) Expand HTTP and MAC.
- (c) Define Bandwidth.
- (d) Mention types of Time Division Multiplexing.
- (e) What is parity bit ?
- (f) Mention types of errors while transmission of data in data link layer.
- (g) What do you mean by routing ?
- (h) Define Congestion.
- (i) What is DNS ?
- (j) Who invented WWW (World Wide Web) ?

SECTION - B

II. Answer any 4 questions. Each question carries 5 marks. 4x5=20

2. Write a short note on LAN and WAN.
3. What are unguided media ? Explain any two unguided transmission media.
4. What do you mean by error detection ? Explain checksum error detection method with example.
5. Explain Stop-And-Wait ARQ protocol in noisy channels.
6. With a neat diagram explain token bucket algorithm.
7. Write a short note on electronic mail (e-mail).



SECTION - C

III. Answer **any 3** questions. Each question carries **10** marks.

3x10=30

8. With a neat diagram explain OSI reference model.
9. What is Multiplexing ? Explain in detail about Frequency Division Multiplexing.
10. Explain steps involved in 7-bit hamming code error detection and correction.
11. Explain any two routing algorithms available in computer network.
12. Write a short note on TCP and UDP header format.

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