

D6BCS2003

Reg.No.....

Name:

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023
(Regular/Improvement/Supplementary)**

**COMPUTER SCIENCE
GBCS6B13T: COMPUTER NETWORKS**

Time: 2 Hours

Maximum Marks: 60

**SECTION A: Answer the following questions. Each carries *two* marks.
(Ceiling 20 Marks)**

1. What is Circuit Switching?
2. Explain why network models are called Layered model?
3. What is meant by vertical redundancy check?
4. Define IEEE 802.1.
5. List various random access Methods.
6. Explain the advantages and disadvantages of bridge.
7. Differentiate between Public IP and Private IP
8. Define the term routing.
9. What is Retransmission Policy in congestion control?
10. Differentiate between Synchronous and Asynchronous Stream Cipher.
11. Define digital signature.
12. What are the differences between public key and private key encryption?

**SECTION B: Answer the following questions. Each carries *five* marks.
(Ceiling 30 Marks)**

13. What are the network support layers of OSI-ISO model? Explain.
14. Explain the DTE and the DCE interface.
15. Differentiate IPv4 & IPv6 addresses.
16. What are the five types of errors handled by the ICMP protocol? Explain.
17. Write a note on TCP services.
18. What are the five services of network security?
19. Explain Message and Message Digest in cryptography.

SECTION C: Answer any 1 question. Each carries *ten* marks.

20. Explain sliding window protocol in flow control with suitable example.
21. What are the functions of network management? Explain.

(1 x 10 = 10 Marks)