

Model Paper – 2

Hi-Tech Institute of Engineering & Technology
B.C.A. Examination
(Semester- 5th) Odd Semester
Computer Network
(BCA-503)

Time: 3 Hours

Maximum Marks: 75

Faculty Name: Ms. Tanu Garg

Note: Attempt questions from all sections as per instructions.

Section – A

Attempt all five questions. Each question carries equal marks .Very short answer is required not exceeding 75 words. 5x3=15

- Q1. What is connection-less service provided by the transport layer?
Q2. Differentiate between gateways and routers.
Q3. What is DTE-DCE interface?
Q4. What do you mean by congestion?
Q5. What is UDP?

SECTION-B

Attempt any two out of following 3 questions. Each question carries equal marks. Answer is required not exceeding 200 words. 2x7.5=15

- Q6. Explain any one of the following:
a) Ring & Star Topology
b) Transmission modes.
Q7. Explain the function of one of them
a) presentation layer. b) session layer
Q8. How flow control and error control is done at data link layer?

SECTION-C

Attempt any three out of following 5 questions. Each question carries equal marks. Answer is required in details. 3x15=45

- Q9. Explain one of the following with an example:
a) Link state routing algorithm
b) Distance vector routing algorithm
Q10. Discuss the different protocols at application layer.
Q11. Write short note on:
a) Throughput b) Synchronous Protocol c) Routers
Q12. How circuit switching works in a network, explain in detail?
Q13. Explain TCP packet format in detail?