

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 01

Total No. of Questions : 08

**BCA (Sem.-6)**  
**COMPUTER NETWORKS**  
**Subject Code : BSBC-603**  
**M.Code : 71212**

Time : 2 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE question(s), each question carries 12 marks.

1. Compare OSI reference model with TCP/IP model. Why and when OSI Reference Model was invented?
2. What is a Topology? Explain in detail different types of Topologies with their diagrams, advantages and disadvantages. Which is the best network topology?
3. What do you understand by Protocols? Explain the purpose of following Protocols:- DHCP, SMTP, SNMP, HTTP, DNS NNTP, ICMP, POP3. Write the use of SLIP protocol.
4. What is Congestion? How congestion occurs? Explain in detail the congestion Control policies? Explain MAC Address?
5. Compare message switching and packet switching. What is the use of Multiplexing? Compare FDM with TDM?
6. What is Multiplexing and De-Multiplexing? Explain in detail FDM, TDM and WDM. What is the principal of Internetworking?
7. What are Communication channels? Explain Telephone lines, leased lines, switch line, coaxial cables-base band, broadband, optical fiber transmission. Differentiate Wired Transmission & Wireless Transmission.
8. What is wireless transmission? Explain the functioning of Radio and Microwave transmission with example? Give example of Infrared transmission.

**Note:** Any student found attempting answer sheet from any other person(s), using incriminating material or involved in any wrong activity reported by evaluator shall be treated under UMC provisions.

Student found sharing the question paper(s)/answer sheet on digital media or with any other person or any organization/institution shall also be treated under UMC.

Any student found making any change/addition/modification in contents of scanned copy of answer sheet and original answer sheet, shall be covered under UMC provisions.