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Roll No. ....

Total No. of Questions: 09]

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B.Tech (Sem. - 7<sup>th</sup>/8<sup>th</sup>)
COMPUTER NETWORKS
SUBJECT CODE: CS - 402
Paper ID: [A0328]

[Note: Please fill subject code and paper ID on OMR]

Time: 03 Hours

**Maximum Marks: 60** 

# **Instruction to Candidates:**

- 1) Section A is Compulsory.
- 2) Attempt any **Four** questions from Section B.
- 3) Attempt any **Two** questions from Section C.

# **Section - A**

Q1)

 $(10\times 2=20)$ 

- a) What is the need of protocols in computer network?
- b) List out the disadvantages of optical fiber.
- c) Describe the need and use of Bus topology.
- d) How does a single bit error differ from a burst error?
- e) Specify the different kinds of Ethernet networks.
- f) Define IP address and subnetting.
- g) What is the function of ARP protocol?
- h) Distinguish between TCP and UDP.
- i) Distinguish b/w Telnet and FTP.
- j) Describe the need and use of sockets.

#### **Section - B**

 $(4 \times 5 = 20)$ 

- Q2) For n devices in a network, what is the number of cable links required for mesh, ring and star topology.
- Q3) Differentiate b/w circuit switching, packet switching and Message Switching.

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- Q4) Differentiate b/w hubs, switches and bridges.
- Q5) Discuss in detail about FDDI.
- **Q6**) Given a IP address of 193.215.45.198 and a subnet mask of 255.255.255.240. What is the Network number? What is the broadcast address? How many hosts addresses?

### **Section - C**

 $(2 \times 10 = 20)$ 

- Q7) Explain the OSI reference model in detail.
- **Q8**) Discuss the following:
  - (a) Stop and wait protocol.
  - (b) Sliding window protocol with go back n.
- Q9) Explain with an example how Hamming code can be used to correct single bit errors. How the Hamming code can be used for burst error correction?



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