

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI  
Summer Examination -2020                      Credit Point : 20  
H.V. P. Mandal's College of Engineering and Technology, Amravati  
Department of Electronics and Telecommunication Engineering  
Bachelor of Engineering Semester – V

Subject : Introduction to Computer Network

Code: 5FEIT05

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Instructions :

1. Solve any **Two** questions.
2. All Question carry equal marks.

Q. 1

- a) Explain fiber optics cable with its advantages. ( 2 Credit)
- b) Describe the need of device drivers for the hardware. ( 2 Credit)
- c) What do you mean by switch? Compare switch and hub. ( 2 Credit)
- d) Explain the purpose of subnet mask. ( 2 Credit)
- e) What is layer 3-Network. ( 1 Credit)
- f) Explain how OSPF work and its advantages. ( 1 Credit)

Q.2

- a) Explain in brief Ethernet LAN with its all characteristic. ( 2 Credit)
- b) What is the FAT 32? Enlist the disadvantages of FAT 32 file system. ( 2 Credit)
- c) Explain half duplex and full duplex. ( 2 Credit)
- d) What is mean by TCP/IP protocol? ( 2 Credit)
- e) Explain how to configure Hyper Terminal software for windows. ( 1 Credit)
- f) What is the difference between static and dynamic routing protocol. ( 1 Credit)

Q.3

- a) What is the network topology. Explain star and mesh topology. ( 2 Credit)
- b) Describe the role of Network Interface Card(NIC). ( 2 Credit)
- c) Explain the term Gateway Address. ( 2 Credit)

- d) Explain the term IGMP and FTP. ( 2 Credit)
- e) Explain trouble shooting the router interface. ( 1 Credit)
- f) Explain in detail RIP protocol. ( 1 Credit)

Q.4

- a) Explain the term WAN and LAN. ( 2 Credit)
- b) What is the BUS. Explain different bus technologies to interconnect. ( 2 Credit)
- c) Explain briefly OSI reference model. ( 2 Credit)
- d) What is IP4 addressing? Describe the address classes and its structure. ( 2 Credit)
- e) Explain the term RS-231. ( 1 Credit)
- f) What is EIGRP? Explain in brief EIGRP along with its components. ( 1 Credit)

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