RETEST EXAMINATION 2019

Semester: 6th (Old)

Subject Code: Et-602

DATA COMMUNICATION AND NETWORKING

Full Marks - 70

Time - Three hours

The figures in the margin indicate full marks for the questions.

Instructions:

- 1. All questions of PART A are compulsory.
- 2. Answer any five questions from PART B.

PART-A

Marks - 25

Fill	in the blanks: $1 \times 10 = 10$
(a)	is a network in which a small number of computers share hardware, software and/or information.
(b)	is a device that acts as a smart hub connecting computers into a network, and it also separates your network from other networks.

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a service providers except that you don't need a wired connection for access does the same job as standard Internet

(e) A virtual private network uses software to establish a secure channel on the

transmitting data.

(f) Wi-Fi (wireless fidelity, 802.11a, b, or h) transmit data about

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E using your cable connection. well-suited for medium distances permits you to access the Internet our cable connection. OBM M INSTRUCTO

 Θ owned or exclusively leased by your company is made of communications media

9 channel on the Internet for transmitting data. uses software to establish a secure

2 Write true or false:

1×10=10

(a) A telephone modem is a device that connects your computer to your phone line so that you can access another computer or network.

- (b) Switch is a device that connects multiple simultaneously. communications links can be in operation computers into a network in which multiple
- A client/server network is a network in which services to the other computers, which are called only one computer is a server and provides
- (d) Broadband is a high-capacity telecommunispeed Internet service. cations pipeline capable of providing high-
- OF TECHNOLOGY (e) Wireless communications media transmits information over a closed, connected path.
- (f) A MAN covers a limited geographic distance, such as an office, building, or a group of buildings in close proximity to each other
- (g) Coaxial cable (coax) has one central wire a final case of insulating material surrounded by insulation, a metallic shield, and
- (h) On an Ethernet network, messages sent out go they're meant for that computer or not computer looks at all the messages to see if to all computers on the network, and each

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(3)

- The most common wired transmission medium for telephones cheaper version of the twisted-pair cable used for home networks is Cat 5 cable, which is a
- (j) A repeater is a device that receives a radio signal, strengthens it, and sends it on.
- Choose the correct answer:

1×5=5

communications medium that uses light waves to transmit signals or information?

(i) Cat 3

(ii) Optical fiber

(iii) Infrared

(iv) Microwave (a) Which of the following is a wireless

- (b) Both station can transmit and receive data simultaneously in
- (i) Simplex mode
- (ii) Half duplex mode
- (iii) Full duplex mode
- (iv) None of the Above

- (c) Data communications are transfer of data through some
- (i) transmission medium
- (ii) linear medium
- (iii) Network LAN
- (iv) Protocols
- (d) Protocols are, set of rules to govern
- (i) Communication
- (ii) Standards
- (iii) Metropolitan communication
- (iv) None of the Above
- (e) Which type of media transmits information through the air?
- (i) Communications media
- (ii) Wired communications media
- (iii) Wireless communications media
- (iv) All of the above.

(5)

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(a) State the different standards introduced by IEEE for LANs.	Marks – 45
introduced	
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- 3 Define synchronous communication and asynchronous communication.
- (c) What are the advantages of setting up a computer network?
- S (a) What is token ring and how it works?
- (b) What are the different ISDN standards?
- (c) Name some network operating system (NOS) software
- 6. (a) What is Network and explain characteristics of Networks?
- (b) Explain different types of Networks
- (c) Write about Protocol and Standards

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- (a) What are the different features of SCTP?
- (b) Write about CSMA/CD protocol
- (c) What is cyclic code and explain Cyclic Redundancy Check (CRC) code ?
- 301/Et-602/DC&N(O) 9

- 00 (a) Define channelization and list three protocols in this category.
- (b) Write about line coding and its characteristics.
- 9. (a) Write about different Block Coding Techniques.
- 3 GRARY * Objection of the proposition of the propo
- Explain different types of topologies.
- Write about error control in TCP.

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