		11.5
Name Marks Fa VIII.	Marks Obtained	17/
Student ID (Sec.) 1610107 (01)	Full Marks 15	
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CLASS TEST 01(SET-B): Fall 2017

CSE320/EEE361: Data Communications Total Marks: 15 Times Allowed: 30 Minutes

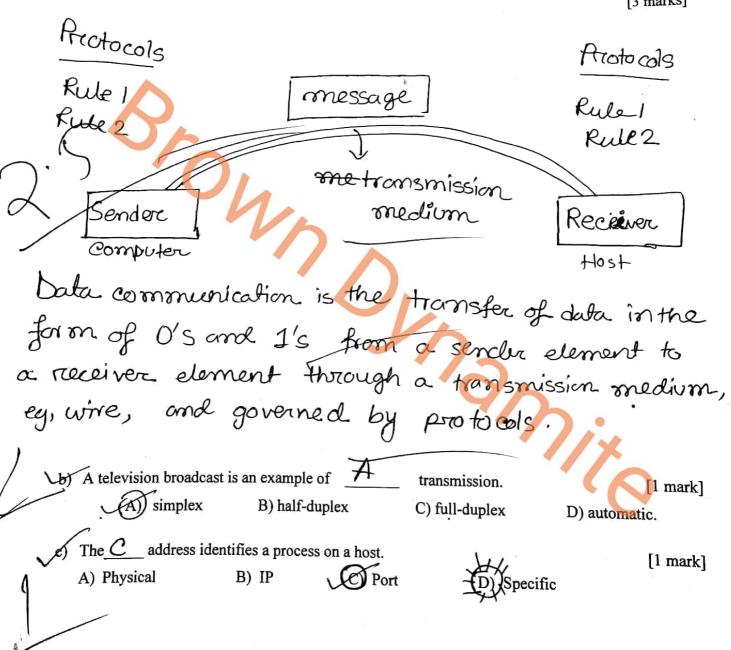
Answer ALL <u>Three (3)</u> questions.

• Figure in bracket [] next to each question indicates marks for that question.

Question No. 1

a) Explain the basic elements of a data communication system with a suitable diagram.

[3 marks]



Stu

EPA

Question No. 2

a) What do you mean by laying in data communication? Draw a block diagram that shows all layers of an OSI model. [2.5 marks]

data transmission in to different layers. So that it is easy to access them and work with them.

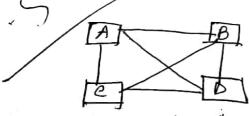


Layers of OSI Model

b) Differentiate between Mesh and Star topologies.

[1.5 mark]

Every element must be connected to each other in mesh topology wherease, stare topology Consists of a central #UB" hub" to which all the other elements are connected.



-> Hub

c) What does ASCII stand for? How many alphanumeric can be represented by using Unicode?

ASCII = American Standardiz Code for Information

Interchange.

A Number of alpha numerics that can be represented by Unicode = 216

a) Define Logical Address and Physical Address?

[2 marks]

Logical Address is the IP address of a network. It is used to indentify the destination from the source Fillsed in hop to hop delivery.

Physical Address is the final address of the process and is used in the Network Tor Access Layer. Eg: Ha MAC address formed formed in the data link layer.

b) Identify appropriate layers from the following functions of an OSI model.

[2 marks]

[1 mark]

Functions

Adding MAC address

ii. Compassion of a large size video file

iii. Selection of a shortest path for routing a message

Making interface between user and the network

Layer

Data Link

Presentation

Network.

Application.

c) What is internet?

Internet is an interconnected mesh of (egwan) networks where data can flow.

THE END