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**CS601 Data Communication**

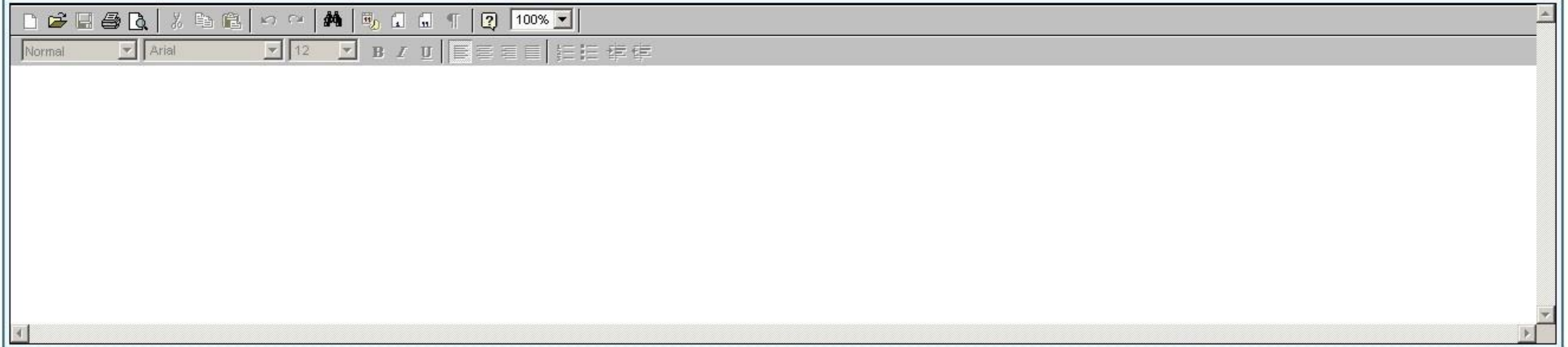
**BC100401156 (HAFIZ MUHAMMAD ARSLAN)**

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

Give two points describing the importance of Standards in Data Communication.

Answer ( [Please click here to Add Answer](#) )



A rich text editor toolbar with the following elements from left to right: icons for file operations (new, open, save, print, copy, paste, find), text alignment (left, center, right, justify), list creation (bulleted, numbered), and zoom (100%). Below the icons is a format bar showing 'Normal' style, 'Arial' font, and '12' size. Bold (B), Italic (I), and Underline (U) buttons are also present.

Start Time: 10:30 PM  
**112:00** 

CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

Suppose a computer network is using multiplexing technique for sending different types of data from different channels then which technique will be used at the receiving end to split the data into the form as it was before multiplexing?

Answer ( Please click here to Add Answer )

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Start Time: 10:30 PM  
**112:00**

CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Why stop and wait method is slow as compared to sliding window method in data flow control?

Answer ( Please click here to Add Answer )

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Start Time: 10:30 PM  
112:00

A network administrator is facing the problem in making one multi station access unit (MAU) of 15 stations in his network based on Ring Topology. Discuss the problem that can occur in this scenario?

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Start Time: 10:30 PM  
112:00 



CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

Suppose a certain radio station is using an Audio signal with a Bandwidth (BW) of 8 KHz. What BW will be needed to modulate the signal using FM (frequency modulation)? Write all necessary steps for calculation and proper formula(s).

Answer ( [Please click here to Add Answer](#) )

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Start Time: 10:30 PM  
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**CS601 Data Communication**

**BC100401156 (HAFIZ MUHAMMAD ARSLAN)**

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Suppose you are asked to evaluate the performance of the communication media used in a computer network then discuss the three core factors which are mainly used to measure the performance of transmission medium.

Answer ( [Please click here to Add Answer](#) )

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Start Time: 10:30 PM  
**112:00**

46

**MADE BY WAQAR SIDDHU**

CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Control Frames play important role in the communication. Just write the name of three Control Frames along with their functionalities from the receiver in the perspective of XMODEM.

Answer ( [Please click here to Add Answer](#) )

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Start Time: 10:30 PM

112:00

47

**MADE BY WAQAR SIDDHU**



## CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

In data transmission and telecommunication a technique is used in HDLC protocol for the insertion of extra bits. Give reason why extra bits are added? Also write the name of the technique used for this purpose.

Answer ( [Please click here to Add Answer](#) )

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Start Time: 10:30 PM

112:00



48

MADE BY WAQAR SIDDHU

Draw the given binary using NRZ-I.  
0001110101

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Start Time: 10:30 PM  
112:00

A network administrator of a computer lab is facing the problem of bandwidth wastage as the bandwidth requirements of lab users are far less than the total capacity of the communication medium being used in the lab. You are required to discuss a suitable technique for the proper utilization of the bandwidth capacity of the medium. Also write distinguishing functionality of its three main categories.

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

A Flow Control method has its specific mechanism to keep track of transmitted and received frames. What is the main factor on which the identification scheme of Sliding Window relies to keep track of transmitted and received frames? Explain this tracking scheme with an example of n=8.

Answer ( Please click here to Add Answer )

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Text area for writing the answer.

Start Time: 10:30 PM  
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MADE BY WAQAR SIDDHU

CS601 Data Communication BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

In data Communication, a term PDU is widely used especially in the context of OSI layer model. You are required to give detail of PDU and its structure in the context of Data Link Layer.

Answer ( Please click here to Add Answer )

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Start Time: 10:30 PM  
**112:00**

CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

Some specific portion of bandwidth of a medium is allocated as Guard Bands. Discuss why we use Guard Bands?

Answer ( Please click here to Add Answer )

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Start Time: 10:37 PM  
**108:00**

CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

Write the main role, a NULL Modem does play with respect to DTE.

Answer ( Please click here to Add Answer )

Rich text editor toolbar with icons for Undo, Redo, Bold, Italic, Underline, Bulleted List, Numbered List, Indent, Outdent, Link, Unlink, Image, Table, Font Color, Background Color, and a 100% zoom level. The text area below is empty.

Start Time: 10:37 PM  
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Consider an example of a network comprised of only two stations having a dedicated link between them. Which type of Line discipline will be implemented in this case?

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Start Time: 10:37 PM  
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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Suppose a network administrator wants to convert its single ring topology network into dual ring topology then what will be two main advantages, he can achieve by doing this?

Answer ( [Please click here to Add Answer](#) )

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Indent, Outdent, Undo, Redo, and a 100% zoom level. Below the toolbar is a large empty text area for the user to type their answer.

Start Time: 10:37 PM  
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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

To overcome the problems / restrictions in other standards, a more effective standard called X.21 standard was introduced in communication industry. You are required to mention three distinct characteristics of this standard that make it more effective than others.

Answer ( Please click here to Add Answer )

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Start Time: 10:37 PM  
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**CS601 Data Communication**

**BC110401908 (AHTESHAM NASEER)**

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Suppose you need to have simultaneous transmission of signals through a single medium, then which technique will be used to fulfill this requirement? Also describe, how does that technique work at sender and receiver end?

Answer ( [Please click here to Add Answer](#) )

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Data Link Control is one of the main tasks in any network. You are required to mention the functions specifically performed by Data Link layer in the perspective of Data Link Control.

Answer ( Please click here to Add Answer )

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## CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

TCP/IP is a protocol suit containing number of protocols on each layer. Name any three TCP/IP protocols which are used on Network Layer.

Answer ( [Please click here to Add Answer](#) )

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MADE BY WAQQAR SIDDHU

## CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Calculate the Bit rate and Baud rate for an Analog signal transmitting 500 signal elements per second, where each signal element carries 5 bits. Make calculations by writing all necessary formulas and steps.

Answer ( Please [click here](#) to Add Answer )

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CS601 Data Communication

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

There are many types of redundancy check techniques but we want to apply a most common and less expensive error detection technique. You are required to describe the suitable technique meeting the given requirements. Also apply your suggested error detection technique on the message "vu" (ASCII code is given below).

01110110 v  
01110101 u

Answer ( [Please click here to Add Answer](#) )

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Examination VU Examination System (... X)

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CS601 Data Communication BC110401908 (AHTESHAM NASEER)

Question No : 51 of 52 Marks: 5 (Budgeted Time 10 Min)

Sliding Window's flow control mechanism uses a specific sequence of numbers for sending and receiving frames. By using this flow control technique, write the window size if  $n=7$  and also complete the following sequence numbers for next 8 packets: 0, 1, 2, 3, ...

Answer ( [Please click here to Add Answer](#) )

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

The Fiber Distributed Data Interface is an ANSI and the ITU-T standard that works on token passing access method in Ring Topology. You are required to mention the types of Registers and types of Timers used in the process of token passing between stations in a Ring Topology.

Answer ( Please click here to Add Answer )

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Start Time: 10:37 PM  
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Question No : 41 of 52 Marks: 2 (Budgeted Time 4 Min)

What information, Phase does provide us regarding a sin wave? Also write its unit of measurement.

Answer ( Please click here to Add Answer )

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41

Navigation icons: Information, Previous, Home, Next, Last, Print

**MADE BY WAQAR SIDDHU**

Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

Discuss the role, Bit Stuffing plays in multiplexing. Does adding the extra Bits in a frame for synchronization purpose come under bit stuffing?

Answer ( [Please click here to Add Answer](#) )

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Start Time: 10:17 AM  
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Time Left

42

Navigation icons: Information, Previous, Home, Next, Last, Print

**MADE BY WAQAR SIDDHU**

Question No : 43 of 52 Marks: 2 (Budgeted Time 4 Min)

Why stop and wait method is slow as compared to sliding window method in data flow control?

Answer ( Please click here to Add Answer )

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Start Time: 10:17 AM  
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Time Left

43

Navigation icons: Information, Previous, Home, Next, Last, Print

**MADE BY WAQAR SIDDHU**

Question No : 44 of 52 Marks: 2 (Budgeted Time 4 Min)

A company wants to establish its computer network using Token Bus technology. You are required to give two main characteristics of this technique.

Answer ( [Please click here to Add Answer](#) )

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44



**MADE BY WAQAR SIDDHU**

Question No : 45 of 52 Marks: 3 (Budgeted Time 6 Min)

Suppose you are asked to evaluate the performance of the communication media used in a computer network then discuss the three core factors which are mainly used to measure the performance of transmission medium.

Answer ( [Please click here to Add Answer](#) )

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Time Left

45

Navigation icons: Information, Previous, Home, Next, Last, Print

**MADE BY WAQAR SIDDHU**

Question No : 46 of 52 Marks: 3 (Budgeted Time 6 Min)

Give the Phase shift in degrees when a signal completes:

- 1. A full cycle
- 2. A half of a cycle
- 3. A quarter of a cycle

Answer ( Please click here to Add Answer )

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46

Navigation icons: Information, Previous, Home, Next, Last

**MADE BY WAQAR SIDDHU**

Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

Consider a network topology based on Poll/Select procedure where one device is designated as Primary and other devices as Secondary. You are required to mention two possibilities to terminate data transmission.

Answer ( Please click here to Add Answer )

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47 [Navigation icons: info, back, forward, next]



Question No : 48 of 52 Marks: 3 (Budgeted Time 6 Min)

In data transmission and telecommunication a technique is used in HDLC protocol for the insertion of extra bits. Give reason why extra bits are added? Also write the name of the technique used for this purpose.

Answer ( Please click here to Add Answer )

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48



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Home RSS Print Page Safety Tools

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

A news channel is using AM (Amplitude modulation) for broadcasting its news bulletin; calculate the bandwidth in KHz that is required for each of the following AM stations.

- Modulating signal with a bandwidth of 4 KHz.
- Modulating signal with frequencies of 2000 to 3000 Hz.

Note: Write all necessary steps for calculation and proper formula(s).

Answer ( [Please click here to Add Answer](#) )

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Time Left



49



MADE BY WAQAR SIDDHU

Question No : 50 of 52 Marks: 5 (Budgeted Time 10 Min)

Network architecture with Synchronous TDM is creating problems in terms of improper usage of line. You are required to give the reasons, why such problems are created in Synchronous TDM? Also suggest its solution with two advantages over Synchronous TDM.

Answer ( Please click here to Add Answer )

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Question No : 51 of 52 Marks: 5 (Budgeted Time 10 Min)

Some types of line disciplines require addressing while others do not. Justify with reasons, why addressing is required in Poll / Select method and not required in ENQ/ACK method?

Answer ( Please click here to Add Answer )

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51 [Navigation icons: Info, Previous, Home, Next, Last]

**MADE BY WAQAR SIDDHU**

Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

Suppose Maize Products Company is running a network of 50 computers in which several devices access the same network resources equally. Keeping in view the scenario, discuss the networking technique which not only makes it possible for several devices to access the network resources but also detects possible collisions and resolves it.

Answer ( Please click here to Add Answer )

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Time Left

52 [Progress bar] [Info] [Previous] [Next] [Previous] [Next] [Print]

CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

For enabling communication between devices in LAN, WAN or MAN, which types of protocol standards can be used?

Answer ( Please click here to Add Answer )

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Start Time: 10:22 AM  
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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

How Even Parity Generator works in Vertical Redundancy Check (VRC)?

Answer ( Please click here to Add Answer )

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Start Time: 10:22 AM  
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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

How many bits hamming code can correct at a time?

Answer ( Please click here to Add Answer )

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Start Time: 10:22 AM  
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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Write any four types of Link Access Protocols, specifically developed by ITU-T.

Answer ( Please click here to Add Answer )

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Indent, Outdent, Undo, Redo, and a 100% zoom level. The text area below is empty.

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## CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

Suppose a constellation diagram consists of four equally spaced points on a circle then what will be the Baud Rate if bit rate is 2800 bps in this scenario. Write all necessary steps for calculation and proper formula(s) to find Baud Rate. Also mention, which type of PSK is used?

Answer ( [Please click here to Add Answer](#) )

Rich text editor toolbar with icons for file operations, editing, and formatting. The text area is currently empty.

Start Time: 10:22 AM

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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Telephone companies use multiplexing technique in order to maximize the performance of their analog lines and make combination of lines as Group, Super-group and Master-group. Write the number of voice channels along with the data rates corresponding to each combination (Group, Super-group and Master-group).

Answer ( Please click here to Add Answer )

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Start Time: 10:22 AM  
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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Consider a network topology based on Poll/Select procedure where one device is designated as Primary and other devices as Secondary. You are required to mention two possibilities to terminate data transmission.

Answer ( Please click here to Add Answer )

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## CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

In data transmission and telecommunication a technique is used in HDLC protocol for the insertion of extra bits. Give reason why extra bits are added? Also write the name of the technique used for this purpose.

Answer ( [Please click here to Add Answer](#) )

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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

A DTE of one network wants to communicate with a DTE on another network, while both DTEs are directly connected to their corresponding DCEs. Discuss all the steps needed in this scenario.

Answer ( Please click here to Add Answer )

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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Due to some network impairments, data sent from sender has been changed before reaching its destination. In this situation, the receiver does not accurately receive what is actually sent by the sender. You are required to write the names and discuss the types of bit errors that can happen in such situations. Also enlist any four error detection techniques to detect such types of errors.

Answer ( Please click here to Add Answer )

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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

Suppose a computer wants to send a message consisting of 32 bits to another computer by ensuring the reliable data delivery, it is applying LRC technique. You are required to describe the whole process (step by step) of sending a block of 32 bits by using this technique.

Answer ( Please click here to Add Answer )

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Start Time: 10:22 AM  
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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

Suppose Maize Products Company is running a network of 50 computers in which several devices access the same network resources equally. Keeping in view the scenario, discuss the networking technique which not only makes it possible for several devices to access the network resources but also detects possible collisions and resolves it.

Answer ( Please click here to Add Answer )

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Start Time: 10:22 AM  
118:00

CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

If 64 bits are sent over transmission medium in one second, what will be the Bit rate and Bit interval?

Answer ( Please click here to Add Answer )

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116:00

CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

Briefly discuss two main purposes of DSU in digital version of analog switched line.

Answer ( Please click here to Add Answer )

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116:00

CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Just write the names of the line disciplines that are used for 'peer-to-peer' and 'primary-secondary' communication respectively.

Answer ( Please click here to Add Answer )

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43

CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Enlist the two major classes of synchronous protocols at data link layer.

Answer ( Please click here to Add Answer )

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

Suppose you are asked to evaluate the performance of the communication media used in a computer network then discuss the three core factors which are mainly used to measure the performance of transmission medium.

Answer ( Please click here to Add Answer )

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

In Data Communication, two devices need to be agreed upon some specific set of rules governing communication. You are required to discuss the concept of Timing with example in perspective of that set of rules.

Answer ( Please click here to Add Answer )

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Suppose sender has sent 8 frames by using Go Back n ARQ, suddenly NAK of the 6<sup>th</sup> frame is received indicating that frame is lost. In this scenario, how this frame is recovered using this technique? Also write the frame numbers to be retransmitted.

Answer ( Please click here to Add Answer )

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## CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

In data transmission and telecommunication a technique is used in HDLC protocol for the insertion of extra bits. Give reason why extra bits are added? Also write the name of the technique used for this purpose.

Answer ( [Please click here to Add Answer](#) )

100%

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Start Time: 10:26 AM

116:00

CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Suppose you need to convert digital data into analog signals by keeping frequency and phase constant. Considering the scenario, discuss the appropriate technique with its limitations in terms of:

- a) Bandwidth
- b) Noise
- c) Speed of transmission

Answer ( Please click here to Add Answer )

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Start Time: 10:26 AM  
116:00

CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Suppose analog telephone conversation between two users takes place by using one of the two main services of analog telephone communication. You are required to name these services and discuss how the process of communication occurs in these services?

Answer ( Please click here to Add Answer )

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 51 of 52 Marks: 5 (Budgeted Time 10 Min)

Sliding Window's flow control mechanism uses a specific sequence of numbers for sending and receiving frames. By using this flow control technique, write the window size if  $n=7$  and also complete the following sequence numbers for next 8 packets: 0, 1, 2, 3, ...

Answer ( Please click here to Add Answer )

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

The Fiber Distributed Data Interface is an ANSI and the ITU-T standard that works on token passing access method in Ring Topology. You are required to mention the types of Registers and types of Timers used in the process of token passing between stations in a Ring Topology.

Answer ( Please click here to Add Answer )

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Start Time: 10:26 AM  
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52

MADE BY WAQAR SIDDHU

Question No : 41 of 52 Marks: 2 (Budgeted Time 4 Min)

If 64 bits are sent over transmission medium in one second, what will be the Bit rate and Bit interval?

Answer ( Please click here to Add Answer )

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Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

Which type of device is used for connecting a terminal to a T-1 line?

Answer ( Please click here to Add Answer )

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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Find the binary equivalent of the expression given below:

$$x^3+x+1$$

Answer ( Please click here to Add Answer )

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43

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Enlist the two major classes of synchronous protocols at data link layer.

Answer ( [Please click here to Add Answer](#) )

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44

Navigation icons: Information (i), Previous (left arrow), Home (house), Next (right arrow), and Print (printer).

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

To overcome the problems / restrictions in other standards, a more effective standard called X.21 standard was introduced in communication industry. You are required to mention three distinct characteristics of this standard that make it more effective than others.

Answer ( [Please click here to Add Answer](#) )

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Telephone companies use multiplexing technique in order to maximize the performance of their analog lines and make combination of lines as Group, Super-group and Master-group. Write the number of voice channels along with the data rates corresponding to each combination (Group, Super-group and Master-group).

Answer ( [Please click here to Add Answer](#) )

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Control Frames play important role in the communication. Just write the name of three Control Frames along with their functionalities from the receiver in the perspective of XMODEM.

Answer ( [Please click here to Add Answer](#) )

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Navigation icons: Information, Previous, Home, Next, Last

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

In data transmission and telecommunication a technique is used in HDLC protocol for the insertion of extra bits. Give reason why extra bits are added? Also write the name of the technique used for this purpose.

Answer ( [Please click here to Add Answer](#) )

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Question No : 49 of 52 Marks: 5 (Budgeted Time 10 Min)

Suppose a telecommunication station wants to convert its audio signals into digital signals. Considering this scenario, you are required to give brief description of a suitable mechanism in this regard.

Answer ( Please click here to Add Answer )

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49 [Navigation icons: Info, Previous, Home, Next, Last]

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Suppose analog telephone conversation between two users takes place by using one of the two main services of analog telephone communication. You are required to name these services and discuss how the process of communication occurs in these services?

Answer ( [Please click here to Add Answer](#) )

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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

Suppose two computers are communicating with each other using HDLC protocol. Discuss, what will be the core role / responsibility of HDLC frames in this communication? Also give the name and functionality of three main types of frames in HDLC.

Answer ( [Please click here to Add Answer](#) )

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

During the transmission, there are possibilities of losing a frame or an acknowledgement. How the lost frame and lost acknowledgement are handled in the Go-Back-N ARQ and Selective Reject ARQ respectively.

Answer ( [Please click here to Add Answer](#) )

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