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## Mid Questions

Midterm Exam due Nov 18, 2021 19:15 +06 **Past due**

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### Announcement

**REMEBER TO SUBMIT.**

**REMEBER TO SUBMIT the link of your file in BuX only**

There will be **three** sets of questions.

**[VERY VERY IMPORTANT]** There will be no file upload in BuX during mid exam. Also, you will not be writing the answers in the BuX answer block. You will get the questions in BuX then write the answers in a paper, took a picture/PDF of your answers then upload the file in your google drive (G-SUITE account). There will be only one answer block in BuX where you have to paste the link only of your file which you have uploaded in your google drive during the exam. After pasting the link just click the submit button in BuX. That's all!

Remember to give access to the file with your faculty only. You can get the email address of your faculty in discord contact channel. We will check your file upload time in drive. So, don't edit anything after your exam. Otherwise, your PDF will be rejected.

No email attachment or late submission is allowed. This time, there won't be any problem as you will upload your PDF in your google drive only. PDF must be the image of handwritten answer. **You must write your ID, section and Name at the top of the PDF.** Only one PDF is allowed. Multiple PDF files are not allowed. **[PDF naming format: Name\_StudentID\_CSE320MID].**

Unacceptable:

-> Plagiarized answers

-> Email submissions

-> Saved answers

-> Screenshots as means to proof that you had a problem during the exam.

**[Read again]** There is no file upload in BuX. Only share the link of the pdf. PDF will be in your google drive. The link of your PDF must be pasted in BuX answer block. No email/discord submission is allowed. You have 1 hr and 15 min altogether. 1 hr for the exam and 15 min to upload PDF in google drive and share the link in BuX answer block only.

**[Read again] [Read again]** Paste the link in BuX answer block only. Remember, any other way is not accepted.

1. (a) Classify each of the below scenarios to an appropriate network type (PAN, LAN, WAN, MAN). Give reasons for your choice. [4 marks]

- A number of Clothing stores (ex: Kay Kraft) located within a city are connected, so office staffs can easily communicate with one another.
- Ariyana lives in Italy, she sends an email to her friend Rainy who lives in the same building with Ariyana.
- In Acme pharmaceuticals company, there are two hundreds of end devices exchanging information within their own network.
- Riya is watching a movie on Netflix on her iphone.

1. (b) Answer the following questions [3 marks] :

- Draw hybrid topology which include star-bus and star-ring network.
- Mention the number of links needed to connect 20 devices in a star topology.
- Write the number of simplex links needed to connect 25 devices in a mesh topology .

2. (b) Given, the power of a signal passing through a channel with frequencies ranging from 1GHz to 999MHz is 1275 mW and the power of the noise is 5000  $\mu$ W. How many signal levels are there? [5 marks]

2. (a) A signal is carrying data in which eight data elements are encoded as four signal elements. If the bit rate is 500 kbps, what is the average value of the baud rate if c is 0.5? What is the difference between the data rate and signal rate? [3 marks]

3. (a) The following figure depicts a sampled analog signal for digital signal representation. By applying the concept of Pulse Code Modulation, assume there will be 4-bit code words for each sampled amplitude. Calculate the normalized PAM value and normalized quantized value for the given analog signal value at different time stamps . Assume that the sampling amplitudes are between -32V to +32V. [6 marks]

Time	Analog Signal Value (V)
0	7.9
1	-13.5
2	24.6
3	-29.4

3. (b) Given the following binary bit stream, draw the corresponding signal after applying the following encoding scheme: i) MLT-3, ii) B8ZS and mention one disadvantage of each. [4 marks]

1 0 0 0 0 1 0 0 1 1 0 0 0 0 0 0 0 1 0 1 1

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Status

This assignment has closed. One or more deadlines for this assignment have passed. You will receive an incomplete grade for this assignment.

1

Your Response due Nov 18, 2021 19:15 BDT (in 0 minutes)

INCOMPLETE

2

Staff Grade

NOT AVAILABLE

Your Grade: Not Started

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