

Questions

Questions

[Bookmark this page](#)

There are 4 questions in the exam. Write all your answer in a separate paper/file, take picture of it and create a pdf file containing all answers. **You need to submit the merged PDF at the end of the question (There is an option for uploading files)**

For question number 2, You MUST submit in buX.

While drawing the diagrams you can draw it by hand or use any tool (Optional). Drawing in tools might take a longer time. So you are advised to avoid tools.

This site can be used to convert images to pdf: <https://smallpdf.com/>

Also, it would be good if they can compress the files where the compression rate is 90%+: <https://www.wecompress.com/en/>

You are given only one attempt to submit the answers. So before pressing Submit button, make sure that is your final answer.

The total duration is 80 minutes. (70 minutes for exam, 10 minutes for file uploading. It is your choice how to utilize the time)

Contact your faculty if you face any problems.

1.

Square Hospital is planning to build a patient tracker. This project involves the development of an Android application for viewing and managing patient data. Prepare 3 functional requirements and 2 non-functional requirements for this app.

Use your imagination and the marks largely depend on the quality of the requirements.

2

0.0/5.0 points (graded)

Calculate BEP for the following information.

	Year 0	Year 1	Year 2	Year 3
Total benefit	0	37036	33741	28421
Total cost	49247	10185	12230	15441

Enter BEP (Round the value to 2 decimal point. Ex: 2.09, 3.50, 4.65 etc)
correct answer: 2.07/2.071/2.068/2.0682/2.1/2.07

2.06

✖

Submit

You have used 1 of 1 attempt

Show Answer

Answers are displayed within the problem

3.

Draw a behavioral state machine diagram that describes the various states that Student Assistance Fund (SAF) authorization can have through its approval process.

A SAF authorization form is used in most universities to approve funding for students to aid their studies. Suppose a student fills out a blank form and sends it to his or her departmental chairperson for a signature. If the amount of funds requested by the student is small (under 10,000 Tk), then the chairperson signs the form and routes it to accounts payable to be input into the accounting system. The system cuts a check that is sent to the student for the right amount, and after the check is cashed, the form is filed away with the canceled check. If the check is not cashed within 30 days, the form expires. When the amount of the requested fund is large (over 10,000 Tk), the chairperson signs the form and sends it to the chief financial officer along with a paragraph explaining the reason for the grant, and the chief financial officer will sign the form and pass it along to accounts payable. Both the chairperson and the chief financial officer can reject the SAF authorization form if they do not feel that the reasons for seeking funding are reasonable. In this case, the student can change the form to include more explanation or decide to pay the entire fee.

4.

Uber is one of the most popular ride-sharing apps in current times. Uber provides two separate apps for customers and drivers. To request a ride from

the app, the customers need to choose a pickup point and the destination. After that, they select the type of ride and then confirm to send a ride request from the app to the UberServer. Upon receiving the request the server starts searching for available drivers in that region. Available drivers in that region receive a notification through the driver app.

If the driver accepts the request it is first sent to the UberServer and then the server sends a notification to the CustomerApp. After that, the GPS coordinates of the driver are sent from the driver app to the UberServer. CustomerApp requests those coordinates from the UberServer and then the server sends those coordinates to CustomerApp. Then the location of the driver is shown to the Customer. Similarly, CustomerApp also sends the GPS coordinates to the UberServer and upon request from the driver app the coordinates are sent and the location of the customer is shown to the driver. If no drivers accept the ride request then a notification is sent from the UberServer to the customer app and shown to the Customer.

Draw a sequence diagram based on this ride searching system of Uber.

Staff Graded Assignment

File uploaded [CSE471_MID_19101098_Sec-8.pdf](#)

This assignment has not yet been graded.

[< Previous](#) [Next >](#)

© All Rights Reserved



[About Us](#) [BracU Home](#) [USIS](#) [Course Catalog](#)

Copyright - 2020

