



United International University (UIU)

Dept. of Computer Science & Engineering (CSE)

Final Term Exam Trimester: Fall 2022 Marks: 40 Time: 2 hours

Code: CSE 4451 Course Title: Human Computer Interaction

"Any examinee found adopting unfair means will be expelled from the trimester / program as per UIU disciplinary rules."

Answer ALL of the following questions:

QUESTION 1

[CO3]

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- a) Design an experiment to test whether adding color coding to an interface will improve accuracy. Identify your hypothesis, participant group, dependent and independent variables, experimental design, task and analysis approach. [6]
- b) Define cooperative evaluation. [4]

QUESTION 2

[CO4]

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- a) What are the main types of help/support users may require while using an interactive system? For each type, give an example of a situation in which it would be appropriate [6]
- b) Is multimodality always a good thing? Justify your answer. [2]
- c) Provide two situations where you would not use a navigation bar in an interface. [2]

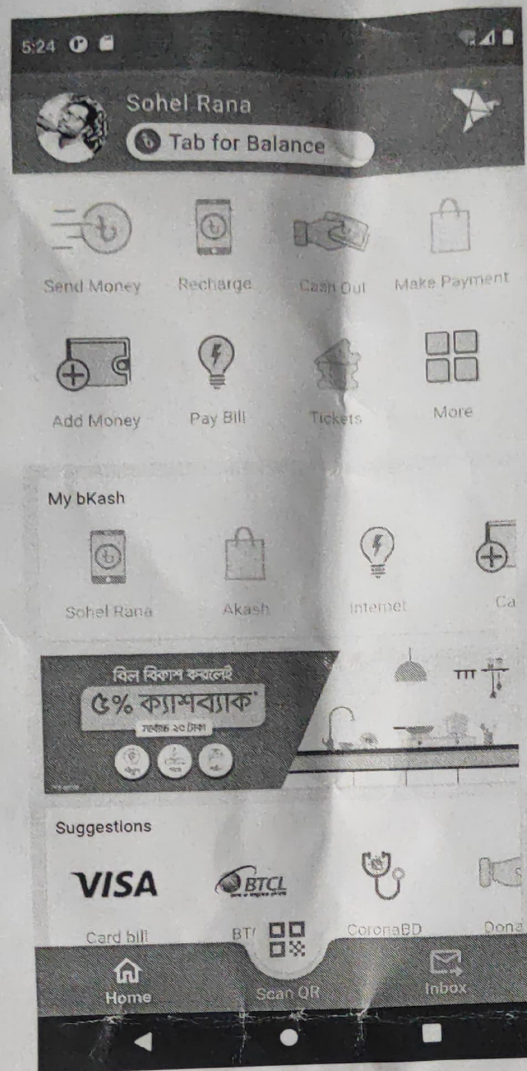
QUESTION 3

[CO3]

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- a) Write the BNF rule for the following square. [6]





[4]
Does Bkash app follow the design rules for learnability? Describe positive and negative aspects.

QUESTION 4

[CO4]

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- Discuss the applications and problems of speech recognition. [4]
- Create a GOMS description of the task of photocopying an article from a journal. [6]