



# United International University (UIU)

Dept. of Computer Science & Engineering (CSE)

Mid Term Exam Trimester: Fall 2022 Marks: 30 Time: 1 hr 45 mins

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 the following questions:

1. ~~a)~~ Define the interaction framework. [3]

~~b)~~ Distinguish between human slips and mistakes using Norman's gulf of execution. [3]

~~c)~~ Robin has entered an ATM (Automatic Teller Machine) booth to withdraw 50000 Taka.

But the machine does not allow him to withdraw more than 20000 Taka in a single transaction. So, he decides to withdraw the money in three transactions. When he tries to perform the second transaction, a message ("NO INTERNET CONNECTION") pops up. He calls the person in charge and after a few minutes, successfully performs rest of the transactions.

Using the **Norman's model of interaction**, briefly describe different stages of Robin's interaction with the ATM. [4]

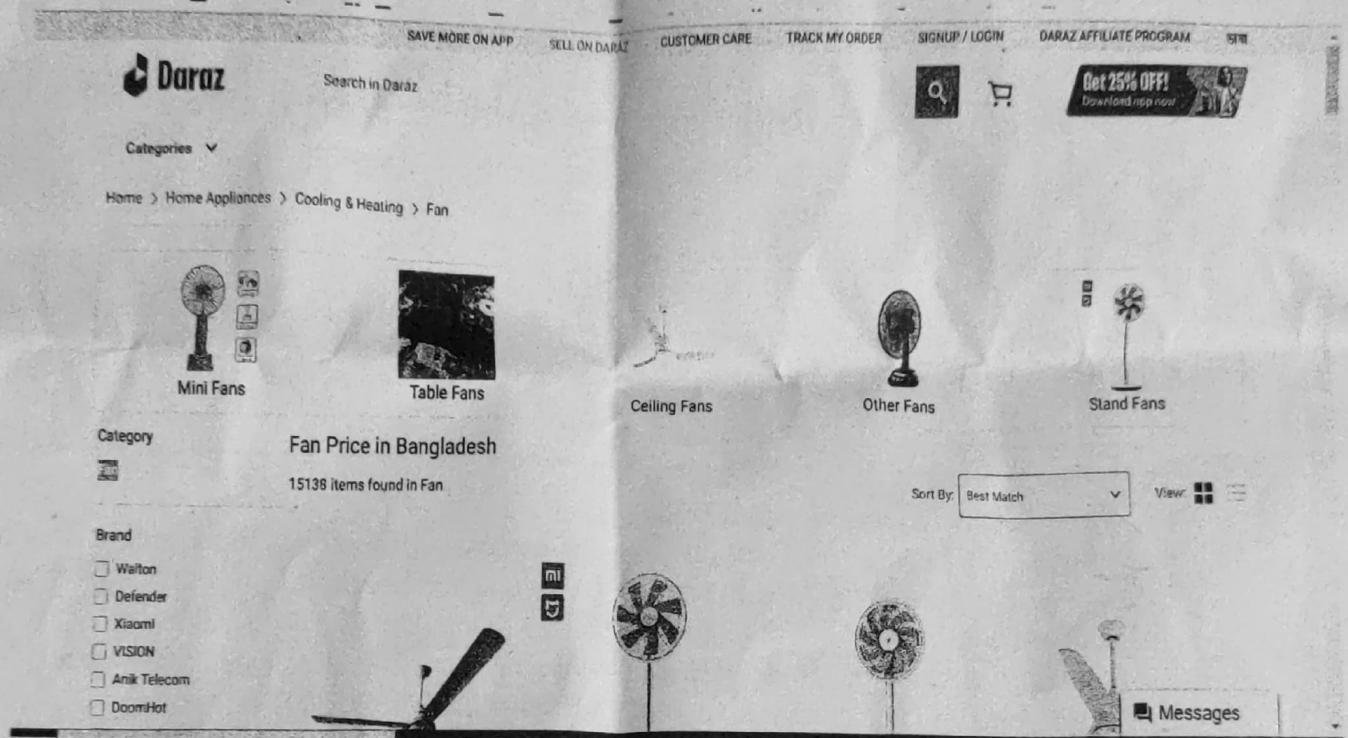
(10) [CO1]

2. ~~a)~~ What is the concept of time sharing? [3]

~~b)~~ What are the dangers/problems of using the metaphor paradigm? [3]

~~c)~~ What new paradigms do you think may be significant in the future of interactive computing? [4]

(10) [CO1,CO2]



3. a) Define appropriate appearance of interface design. Do the above website's single page follow all the four rules of local structure? [4]

b) Should you consider Miller's  $7 \pm 2$  rule for deciding menu size? Explain your answer with reasoning. [3]

c) Define user action control. [3]

(10) [CO2]