



Kuala Lumpur

g) Define Human Computer Interaction (HCI).

HUMAN COMPUTER INTERACTION (CSC 2200)

(TIME: 3 HOURS)

ATRIC NO. .

[illegible]

LECTURER : SUDEEP LAL BAJIMAYA

1. This question booklet consists of 5 printed pages including this page.
2. Answer **ALL** questions in the **ANSWER BOOKLET**.
3. **PLEASE DO NOT TURN THIS PAGE AND START THE EXAM UNTIL YOU ARE TOLD TO DO SO.**

INSTRUCTIONS:

TIME: 3 HOURS

SECTION A

(60 MARKS)

There are ELEVEN (11) questions in this section. Answer ALL Questions in the Answer Booklet.

1. Answer the following questions:
 - a) Define Human Computer Interaction (HCI).
(2 marks)
 - b) State **THREE (3)** goals of HCI.
(3 marks)
2. List **ANY THREE (3)** human factors that affect how people interact with computer system.
(3 marks)
3. Explain Shackel's Model of Usability and its **FOUR (4)** factors.
(6 marks)
4. Describe the following data gathering techniques.
 - a) Workshops or focus group
(3 marks)
 - b) Naturalistic Observation
(3 marks)
5. Define hierarchical task analysis (HTA).
(3 marks)
6. Draw a graphical HTA for any suitable application of your choice.
(6 marks)
7. Describe user interface metaphor with an example.
(3 marks)

8. Refer to the following scenario:

“It is Saturday morning and Ram plans to vacuum the floor and change bed sheet of his three-storey house”

a) Prepare a Hierarchical task analysis in textual representation for the given scenario.

(8 marks)

b) Describe your plan.

(2 marks)

9. Discuss **ANY TWO (2)** problems that user interface design has in common with traditional software engineering.

(4 marks)

10. Draw a use case diagram for the library system present at your college.

(10 marks)

11. Explain the meaning of what you see is what you get (WYSIWYG).

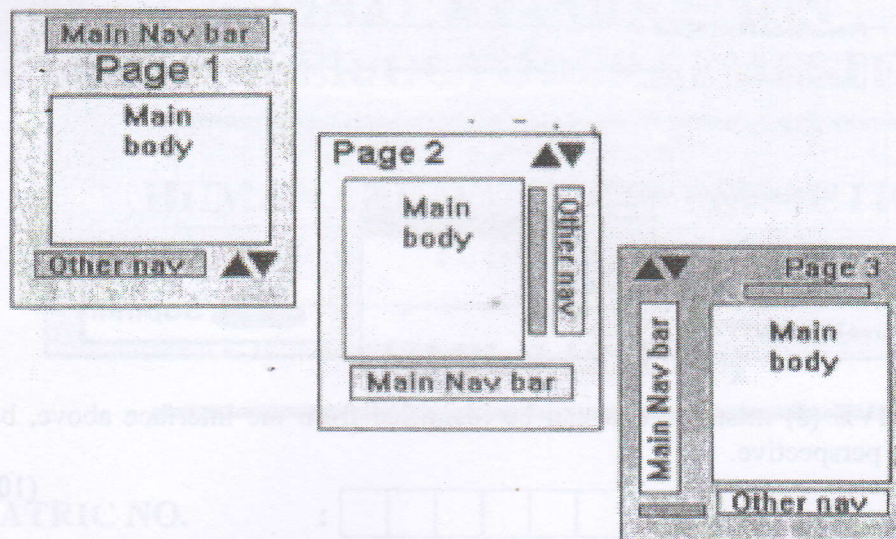
(4 marks)

SECTION B

(40 MARKS)

There are THREE (3) questions in this section. Answer ALL Questions in the Answer Booklet.

1. Refer to the following wireframe interface design.



- a) Evaluate the design above and write your critiques. (6 marks)
- b) Illustrate the best way to improve the designs. (4 marks)
2. State the purpose of wireframe in HCI. (4 marks)

3. Refer to following figure to answer:

Prescription Refill Service

PRESCRIPTION REFILL SERVICE

Your name: Date: **

Prescription Refill Service

Doctors Name: Dr.

Medicine Name:

**Use MM/DD/YYYY

Prozac
Zoloft
Claritin
Allegra D
Singular
Propecia
Viagra
Pamel

Submit

- Describe **FIVE (5)** mistakes that can be identified from the interface above, based on HCI design perspective. (10 marks)
- Briefly explain **FIVE (5)** of “the eight golden rules” of design that have been violated by this interface. (10 marks)
- Draw a sketch of improved design and justify your design. (6 marks)

*** END OF QUESTIONS ***