

FINAL EXAMINATION MAY 2024 SEMESTER

COURSE

TEB2143/TFB2033 - HUMAN AND COMPUTER

INTERACTION

DATE

2 AUGUST 2024 (FRIDAY)

TIME

3:00 PM - 6:00 PM (3 HOURS)

INSTRUCTIONS TO CANDIDATES

- 1. Answer **ALL** questions in the Answer Booklet.
- Begin EACH answer on a new page in the Answer Booklet.
- 3. Indicate clearly answers that are cancelled, if any.
- 4. Where applicable, show clearly steps taken in arriving at the solutions and indicate ALL assumptions, if any.
- DO NOT open this Question Booklet until instructed.

Note

- There are SEVEN (7) pages in this Question Booklet including the cover page
- ii. DOUBLE-SIDED Question Booklet.

Universiti Teknologi PETRONAS

TEB2143/TFB2033

1 a. Explain how does Task Analysis help with the design of user interface.
[2 marks]

b. Describe THREE (3) user requirements that can be considered when designing an ATM machine.

[6 marks]

c. i. Describe Hierarchical Task Analysis (HTA).

[4 marks]

ii. Construct an HTA for the goal of withdrawing money from ATM machine.

[8 marks]

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2.	You are the director of the Usability Lab at the Technology Research Centre. A	Ĺ
	group of visitors is coming over to the center for a visit.	

a.	Prepare a	draft version	of your	briefing	explaining	the	common	activities	for
	usability te	esting in the la	b.						

[6 marks]

b. Explain **TWO** (2) data gathering techniques to complement your testing described in **part** (a).

[4 marks]

c. Explain to the visitors **FIVE (5)** usability goals that need to be achieved after the evaluation process.

[10 marks]

3. FIGURE Q3 shows the home page of a gardening website.



FIGURE Q3

a. Based on the design guideline for the home page of a website, critique FOUR (4) features of the home page shown in FIGURE Q3 that you feel either conform or do not conform to the design guidelines.

[8 marks]

b. Explain **TWO** (2) of the Eight Golden Rules that have been violated by this in **FIGURE Q3**.

[4 marks]

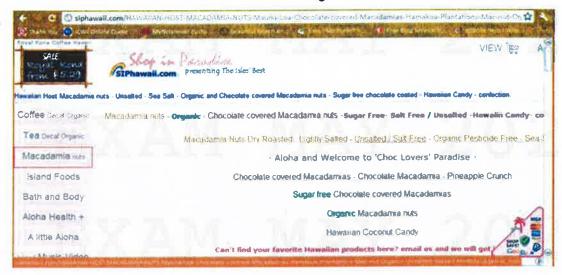
c. Based on your answers in **part (a)** and **part (b)**, sketch the interface showing changes you wish to make in order to rectify those violations.

[8 marks]

4. **FIGURE Q4** shows an e-commerce website called "siphawaii.com". It sells various types of products which originate from Hawaii.



Page 1



Page 2

FIGURE Q4

a. Indicate TWO (2) major problems with the interface.

[2 marks]

b. Describe **THREE** (3) guidelines concerned with the screen design and use of color.

[6 marks]

c. Discuss **TWO** (2) reasons how a well-designed website can be characterized.

[4 marks]

d. Sketch an improved interface for the website according to good website guidelines.

[8 marks]

5. a. Discuss ONE (1) reason why prototype is important.

[2 marks]

b. Differentiate the difference between low-fidelity prototyping and high-fidelity prototyping. Give an example of each.

[6 marks]

c. List TWO (2) pros and TWO (2) cons of each prototyping method.

[4 marks]

d. Illustrate your answer using TWO (2) methods in developing a low fidelity prototype for a mobile device aimed at guiding tourists arriving in Ipoh.

[8 marks]

- END OF PAPER -

