

FACULTY OF MANAGEMENT AND ADMINISTRATION

- COURSE TITLE: CSC303 HUMAN COMPUTER INTERACTION
- SEMESTER 2: FINAL EXAMINATION NOV-DEC 2014
- LECTURER: Agrippah KANDIERO

TIME: 3 HOURS

Answer questions as specified in each section. Total possible mark is **100**.

Start each Section B question on a new page in your answer booklet.

The marks allocated to **each** question are shown at the end of the section.

Avoid zero-intelligible content and answer in expanded bullet point form.

Credit will be awarded for logical, systematic and neat presentations.

SECTION A (Answer all questions)

- 1. Define design in HCI [5]
- 2. Outline and describe the design process [10]
- 3. Define and illustrate the waterfall model for HCI [5]
- 4. Outline and describe the ISO 9241 Model [5]
- 5. Outline and describe the IBIS model [5]
- 6. Outline and describe HCI evaluation techniques [5]
- 7. What are the universal HCI design principles [5]

SECTION B (Answer ALL questions)

1. Task Analysis Model

- **a)** Define task analysis [4]
- **b** Outline and describe task analysis techniques [4]
- c)_Compare and contrast task analysis vs cognitive models [4]
- d) Outline and describe task decomposition [4]

2. Cognitive Model

- **a.** Define liguistic notations and identify and describe the main forms of linguistic notations giving examples [10]
- **b.** Otline and describe GOMS and give an example [5]
- c. Outline and describe CCT and give an exaample [5]

3. Evaluation Techniques

Outline and describe the following HCI evaluation techniques

- a. Cognitive Walkthrough [5]
- b. Heuristic Evaluation [5]
- c. Evaluating through user participation [5]
- d. Observational Methods [5]

THE END