

PAN AFRICA CHRISTIAN UNIVERSITY

DIPLOMA INFORMATION COMMUNICATION TECHNOLOGY

END OF TERM EXAMINATION

DEPARTMENT: COMPUTING & INFORMATION TECHNOLOGY

COURSE CODE: BIT 209

CAMPUS: ROYSAMBU

COURSE TITLE: HUMAN COMPUTER INTERACTIONS

EXAM DATE: DAY OF WEEK, DATE (DDTH MONTH YEAR)

TIME: START HOUR – END 00:00-00:00 HRS

INSTRUCTIONS

- This exam carry a total of SIX Questions of [10 Marks Each]
- Section One (I) is compulsory.
- Answer any 3(Three) Questions from Section Two (II)
- Read all questions carefully before attempting.

Section One (I) 30 Marks.

Question One - Compulsory:

- a) Debate with examples THREE main goals and achievements of HCI in academic circles. **[6 Marks]**
- b) HCI is a very dominant field that affects interaction in the study, planning, and design of how people and computers work together so that a person's needs are satisfied in the most effective way. With these in mind, system designers consider various factors in the process of designing hardware and software designs. Deduce the above statement. **[4 Marks]**

Section Two Answer any 3 questions

QUESTION TWO [10 marks]

- a) Discuss FIVE differences underlying between GUI versus Web page design strategies in HCI. **[5 Marks].**
- b) Debate FIVE major pitfalls and problems encountered in most user design process. **[5 Marks]**

QUESTION THREE 10 Marks:

In HCI one must be well versed with the critical roles of the following team members as regards to good and well composed outputs. Elaborate each teams roles showing any unforeseen challenges that they might encounter.

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|-------------------------------|------------------|
| i. Development Team | [2 Marks] |
| ii. Human factors team | [2 Marks] |
| iii. Visual Design team | [2 Marks] |
| iv. Usability assessment team | [2 Marks] |
| v. Documentation team | [2 Marks] |

QUESTION FOUR 10 Marks:

- a) Information Technology and IOT belong to the technical field. It is crucial for the analyst to have an understanding of different types of technology and user needs with– what they are used for, how they work and how they are evolving. Identify main FOUR business knowledge and skills of a system designer/Analyst. **[4Marks].**
- b) Discuss THREE major reasons why most people have trouble with computer designs. **[6Marks]**

QUESTION FIVE 10 Marks:

The knowledge possessed by a person, and the experiences undergone, always shapes the design of an interface in many ways. Elaborate on the following kinds of knowledge and experiences in their effect to good designs. **[10Marks]**

- i. Computer Literacy
- ii. System Experience
- iii. Application Experience.
- iv. Typing Skill
- v. Reading Level

Question SIX 10 Marks:

- a) Explain how the following disciplines contribute to HCI. **[10 Marks]**
- i. Computer science.
 - ii. Cognitive psychology.
 - iii. Social and organization psychology.
 - iv. Ergonomics.
 - v. Linguistics.

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