



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2016/2017**

**THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE  
DEGREE OF BACHELOR OF SCIENCE IN INFORMATION  
TECHNOLOGY**

**MAIN CAMPUS**

**CIT 302: HUMAN COMPUTER INTERACTION**

Date: 19<sup>th</sup> June, 2017

Time: 3.30 - 6.30 pm

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**INSTRUCTIONS:**

- Answer question ONE in SECTION A and any other TWO questions from SECTION B.



**SECTION A: {30 MARKS}**

**Question 1**

- a. A basic goal of user information systems design is to improve the interaction between users and computers, by making computers more user-friendly and easier to use and also make it convenient for the users to use the technology. More specifically, explain any other five concerns of user information systems design. [10 Marks]
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- b. Discuss any three reasons why it is necessary to involve users in information systems design, and explain how to involve a user in the design process. [10 Marks]
- c. State and explain any five reasons why there has been a growth in interest on information systems design. [10 marks]
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**SECTION B: {40 MARKS}.**

**Question 2:{20 Marks}.**

- a) Describe any five main factors in the development of designs of interactive computer systems [10 Marks]
- b) Discuss any five main differences between the command driven interfaces and direct manipulation interfaces. [10 Marks]

**Question 3:{20 Marks}.**

- a) With examples explain the five types of interaction style, with an example of each. [10marks]
- b) What is Heuristic evaluation? Describe any four problems with heuristic evaluation. [10 Marks]

**Question 4:{20 Marks}.**

- a) Discuss any five kinds of work environment that speech input might be beneficial. [10 Marks]
- b) It is important to have some guidelines when constructing an interface, discuss any five major guidelines commonly used in the design process. [10 marks]

**Question 5:{20 Marks}.**

- a) Describe the four stages of human information processing model. [4 Marks]
- b) What does it mean to say that an object has an affordance? [3 Marks]
- c) Why do you think it necessary for a user to know what is happening on the computer side of an interaction? [2 Marks]
- d) What factors should be considered when choosing an interaction style. [3marks]
- e) What is the aim of evaluation? Who should use evaluation? [4marks]
- f) Explain the concepts affordance. [2marks]
- g) Distinguish between formative and summative evaluation [2marks]