



Question paper

Course: 16CA202 - Human Computer Interface

Event: BCA - December 2018



DAYANANDA SAGAR UNIVERSITY

USN No:

III Semester BCA Examinations – December 2018 / January 2019

Course Title: Human Computer Interface

Course Code: 16CA202

Duration: 03 Hours

Date: 19-12-2018

Time: 10:00 AM to 01:00 PM

Max Marks: 60

- Note:
1. Answer 5 full questions choosing one from each Section
 2. Each Section carries 12 Marks
 3. Draw neat sketches wherever necessary
 4. Missing Data may be suitably assumed

SECTION - 1

- 1.a. Classify the two main theories of forgetting? (06 Marks)
- 1.b. List Input and Output channels and discuss briefly about it. (06 Marks)

OR

- 2.a. List the most common Interface styles and note the different effects these have on the interaction. (06 Marks)
- 2.b. Explain the two main architectures used for group-ware systems? (06 Marks)

SECTION - 2

- 3.a. Summarize the basic categories of the Smith and Mosier guidelines. (08 Marks)
- 3.b. Discuss the universal design principles of UI with an example. (04 Marks)

OR

- 4.a. With neat diagram explain the application functional hierarchy? (08 Marks)
- 4.b. Explain in detail at the software development process and how HCI fits within it. (04 Marks)

SECTION - 3

- 5.a. State the golden rule of design. (04 Marks)
 - 5.b. Discuss about face-to-face communication. (04 Marks)
- (P.T.O)



- 5.c. Describe the properties of the communication channels in terms of grounding constraints. (04 Marks)

OR

- 6.a. Explain the participatory design process that utilizes a range of methods to help convey information between the user and designer. (06 Marks)
- 6.b. Explain the Effective Technical and Human Implementation of Computer-based Systems (ETHICS) How the design groups address the issues and activities related to the same. (06 Marks)

SECTION - 4

- 7.a. Elaborate and classify the broader set of devices that supports an operating system. (06 Marks)
- 7.b. With suitable example, explain the process flow diagram. (06 Marks)

OR

- 8.a. List and Analyze the various elements of Mobile Design with an example. (06 Marks)
- 8.b. Mention and analyze the seven principles of Web 2.0. (06 Marks)

SECTION - 5

- 9.a. With neat diagram, explain the Examine the common approaches to targeting a drop event? (06 Marks)
- 9.b. Differentiate between Dragged object versus drop target. (06 Marks)

OR

- 10.a. Illustrate and compare the types of selection techniques used in web development in detail. (04 Marks)
- 10.b. Briefly describe some of the events available for cueing the user during a drag and drop interaction. (04 Marks)
- 10.c. List the difference between paging and Scrolling using an example. (04 Marks)

Course: 16CA202 - Human Computer
Interface

Event: ODD SEM BCA (DEC 2017)



DAYANANDA SAGAR UNIVERSITY

USN No:

III Semester BCA Examinations – December 2017

Course Title: Human Computer Interface

Course Code: 16CA202

Duration: 03 Hours

Date: 21-12-2017

Time: 10:00 AM to 01:00 PM

Max Marks: 60

- Note:**
1. Answer 5 full questions choosing one from each section
 2. Draw neat sketches wherever necessary
 3. Missing Data may be suitably assumed

SECTION – 1

- 1.a. Discuss about how new, fast and high density memory devices, fast processors have influenced Human Computer Interface (HCI). (06 Marks)
- 1.b. State Rock's law. (03 Marks)
- 1.c. Explain Rock's law impact in HCI. (03 Marks)

OR

- 2.a. Explain Norman's model of interaction in Human Computer Interface. (06 Marks)
- 2.b. How ergonomics play a vital role in HCI? Briefly discuss. (04 Marks)
- 2.c. What do you mean by memory hierarchy? (02 Marks)

SECTION – 2

- 3.a. What is usability testing? What are its stages? (04 Marks)
- 3.b. Discuss about the goals of usability testing. (04 Marks)
- 3.c. Discuss about the five attributes that contribute to usability. (04 Marks)

OR

- 4.a. Explain Usability Engineering life cycle with proper diagram. (06 Marks)
- 4.b. Discuss about User Centered Design (UCD) assumptions and drawbacks. (04 Marks)
- 4.c. What can be suggested as a possible solution to the UCD drawback? (02 Marks)

(P.T.O.)

SECTION – 3

- 5.a. Who are stakeholders? (02 Marks)
- 5.b. Differentiate and explain between cooperation and conflict with example. (05 Marks)
- 5.c. Classify models in HCI. (05 Marks)

OR

- 6.a. Discuss about the free rider problem. (04 Marks)
- 6.b. Explain critical mass. (04 Marks)
- 6.c. What do you mean by model in HCI? Explain in brief. (04 Marks)

SECTION – 4

- 7.a. Explain in brief about Mobile 2.0 architecture. (06 Marks)
- 7.b. What are the elements of mobile design? (04 Marks)
- 7.c. What do you mean by mobile applications? (02 Marks)

OR

- 8.a. Discuss about the evolution of HCI in the mobile ecosystem. (06 Marks)
- 8.b. Explain about mobile operating systems. (04 Marks)
- 8.c. Explain the functioning of mobile networks. (02 Marks)

SECTION – 5

- 9.a. Explain in detail about the ten rules of good user interface design. (08 Marks)
- 9.b. What do you mean by primary menu and secondary menu? (02 Marks)
- 9.c. What do you mean by virtual scrolling? (02 Marks)

OR

- 10.a. Explain process flow in web interface design. (08 Marks)
- 10.b. State Fitt's law. (02 Marks)
- 10.c. What is inline paging? (02 Marks)



Internal Question Paper I

Class: III Semester, BCA

Date: 11/09/201

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Course: HUMAN COMPUTER
INTERFACE

Time: 2.30-4.00

Course code: 16CA202

Max. Marks: 50

Note: Answer any FIVE full questions

Q. No.	Questions	Marks
1	What is HCI and write about each components of HCI.	10
2	What are the stages of Norman's model of interaction and discuss the Norman's model.	10
3	Summarize three types of memory or memory function	10
4	Differentiate between direct manipulation vs indirect manipulation	10
5	Discuss the importance of grouping controls	10
6	Analyze briefly four different interaction styles used to accommodate the dialog between user and computer.	10