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M.C.A.

Theory Examination (Semester-IV) 2015-16

HUMAN COMPUTER INTERACTION AND USER INTERFACE DESIGN

Time : 3 Hours   *Max. Marks : 100*

SECTION-A

Q1. Attempt all parts. Write answer of each part in Short.   **(2x10=20)**
a) Differentiate between visual icon and textual icon.
b) Name five types of interaction tasks through which pointing devices are applicable.
c) Discuss the design guidelines for design of human computer interface.
d) Define the term Icon and Window.
e) Give the difference between single document interface (SGI) and multiple document interface (MDI).
f) Write the main components of dialog design.
g) Define the term radio button and context menu.
h) What is task analysis?
i) What are important applications of Human computer interaction (HCI)?
j) Differentiate between computer menu and restaurant menu.

SECTION –B

Q2. Attempt any five questions from this section.   **(10x5=50)**
a) Describe human cognitive process.
b) Write short notes on "Designing for usability, effectiveness and flexibility ".
c) Explain how fit among the HCI elements of the human, the computer, and the tasks to be performed leads to performance and well-being.
d) Describe the features and functions of WIMP.
e) Describe the features of graphics language and speech interface to a computer.
f) What are various types of mouses? Distinguish their operations.
g) What are the function keys? What are their advantages?
h) Define the term "hypertext" and explain how it differs from usual text.

SECTION-C

Attempt any two questions from this section.   **(15x2=30)**
Q3.What is the guideline for selecting the proper device-based control? Explain in detail.
Q4. Give a brief note about the features of user-interface building tools.
Q5. Write short note on the following:
   (a) Attitudes and usability goals
   (b) Acceptability criteria
   (c) Hyper text and WWW