Code :R7420506

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IV B.Tech II Semester(R07) Regular Examinations, April 2011
HUMAN COMPUTER INTERACTION
(Computer Science & Engineering)

Time: 3 hours   Max Marks: 80

Answer any FIVE questions
All questions carry equal marks
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1. (a) Briefly explain the components of the user interface.
   (b) Briefly explain the history of screen design.

2. (a) Explain the characteristics of direct manipulation.
   (b) Explain the general principles of user interface design.

3. (a) Why people have trouble with computers.
   (b) Briefly explain about human interaction speeds.

4. (a) What are the goals in interface design?
   (b) Write menu selection guidelines.

5. Explain the following screen based controls and also explain their respective advantages and disadvantages.
   (a) Drop-down/pop-up list boxes.
   (b) Drop-down/pop-up combo boxes.

6. Explain in detail about the factors considered in choosing icons and images.

7. Describe the following specification methods
   (a) Menu selection and dialog box trees.
   (b) Transition diagram.

8. (a) What is fitter's law? Where it is used?
   (b) Write a short note on:
      i. Light pen
      ii. Touch screen.

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$\boxed{2}$

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Time: 3 hours   Max Marks: 80

Answer any FIVE questions
All questions carry equal marks
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1. (a) What are the technical characteristics of computer hardware and software?

    (b) Briefly explain the history of graphical used interface.

2. (a) Explain the differences of direct and indirect manipulation.

    (b) What are the characteristics of web interface and also compare and contrast with GUI?

3. (a) What are the psychological responses to poor design and also mention the physical responses.

    (b) Briefly explain about metaphors.

4. What is importance of searching? Explain different task actions?

5. Explain the following screen based controls and also explain their respective advantages and disadvantages.

    (a) Command button

    (b) Tool bar.

6. Explain in detail about the factors considered in choosing colors.

7. Describe the following specification methods

    (a) Grammars

    (b) State charts

8. (a) What are novel pointing devices:

    (b) Give a brief note about the following:

        i. Mouse

        ii. Joy Stick

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Code :R7420506 $\boxed{3}$

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HUMAN COMPUTER INTERACTION
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Time: 3 hours   Max Marks: 80

Answer any FIVE questions
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1. (a) What are the technical limitations of the computer hardware and software?

    (b) What are the benefits of good design?

2. (a) Explain the advantages and disadvantages of graphical systems.

    (b) Specify the characteristics of objects and also explain the relationships that exist between them.

3. (a) What are the perceptual characteristics in design? Explain briefly.

    (b) What are the guidelines for designing conceptual models?

4. What is task related organization? Give its importance.

5. Explain the following screen based controls and also explain their respective advantages and disadvantages.

    (a) Text boxes

    (b) Radio button.

6. Explain in detail about the factors described in choosing icons and images.

7. Describe the following specification methods.

    (a) Menu selection and dialog box trees.

    (b) State charts.

8. Write a short note on:

    (a) Stylus

    (b) Track ball

    (c) Track point

    (d) Touch pad.

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$\boxed{4}$

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HUMAN COMPUTER INTERACTION
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Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

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1. (a) Define the user interface design and explain the various factors considered by HCI designers.

   (b) Explain the importance of good design.

2. (a) Explain the characteristics of graphical used interface.

   (b) Write a short note on:
      i. Data object.
      ii. Container object.
      iii. Device object.

3. (a) What are the characteristics of mandatory use and also mention the characteristics of discretionary use?

   (b) Explain the different techniques for capturing information for determining requirements.

4. What is use of interface building tools? Also explain features of those tools?

5. Explain the following screen based controls and also explain their respective advantages and disadvantages.

   (a) Check box

   (b) List box.

6. Explain in detail about the factors considered in choosing colors.

7. Describe the following specification methods

   (a) Grammars.

   (b) Transition diagram.

8. Give a brief note about the following:

   (a) Direct control devices.

   (b) Indirect control devices.

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