Code No: K0525   **R07** $\boxed{\textbf{Set No. 1}}$

IV B.Tech II Semester Supplementary Examinations, July/Aug 2012
HUMAN COMPUTER INTERFACE
(Computer Science & Engineering)

Time: 3 hours   Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
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1. (a) Explain briefly about the terms:
       (i) Interface   (ii) input and   (iii) Output.
   (b) What are the characteristics of a good user interface design?   [8+8]

2. Give a detail note about:

   (a) Design Consistency
   (b) Control in user interface design.   [16]

3. Explain how to gain a complete understanding of users mental model while determining basic business functions.   [16]

4. Give a brief note about the following headings types used in screen design.

   (a) Control section heading
   (b) Control sub- section/ row heading
   (c) field group heading
   (d) web page heading.   [4×4]

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.   [8+8]

6. (a) Discuss the issues that are to be considered in combining mediums.
   (b) Explain the role of color as
       (i) A formatting aid   (ii) A visual code.   [8+8]

7. Discuss about the following specification methods

   (a) State charts
   (b) Grammers.   [8+8]

8. (a) Explain how the speaker-dependent training of discrete word speech recognition is done.
   (b) What is meant by speech generation? Discuss its applications.   [8+8]

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Code No: K0525   **R07**   **Set No. 2**

IV B.Tech II Semester Supplementary Examinations, July/Aug 2012
HUMAN COMPUTER INTERFACE
(Computer Science & Engineering)

Time: 3 hours   **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks
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1. Give a brief note about the Chronological history of Graphical user interface (GUI).
   [16]

2. Explain in detail about the following principles of user interface design.

   (a) Clarity

   (b) Comprehensibility

   (c) Consistency. [16]

3. (a) Give a brief note about human infraction speeds

   (b) Give a brief note about various methods for gaining an understanding of users.
   [8+8]

4. (a) What is the role of

      i. High lighting and low lighting

      ii. Beveled edges

      iii. Clarity change, and

      iv. spacing change in conveying the depth levels or 3-D appearance.

   (b) What is the typical font size to be used in web content design for various
   headings? [8+8]

5. Describe and state the use of the following screen based controls

   (a) Buttons

   (b) Text entry/read-only controls. [8+8]

6. Discuss and elaborate the issues to be considered in choosing colors for web pages.
   [16]

7. Discuss about programming languages and scripting languages which are suitable
   for designing user-interface. [16]

8. Discuss briefly about audio tones, audiolization and music. What are their roles in
   interaction with computer? [16]

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Code No: K0525   **R07**   **Set No. 3**

IV B.Tech II Semester Supplementary Examinations, July/Aug 2012
HUMAN COMPUTER INTERFACE
(Computer Science & Engineering)

Time: 3 hours   Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
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1. What is GUI? What is the importance of GUI?   [16]

2. Explain in detail about the following principles of using interface design.

   (a) Aesthetically pleasing

   (b) Comprehensibility

   (c) Configurability.   [16]

3. List and explain the five design commandments that remain foremost in the designer's mind.   [16]

4. (a) Give a brief note about screen navigation and flow.

   (b) Give a brief note about grouping a visually pleasing composition.   [8+8]

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.   [8+8]

6. (a) Discuss the issues that are to be considered in combining mediums.

   (b) Explain the role of color as
       (i) A formatting aid   (ii) A visual code.   [8+8]

7. Explain the suitability of C++, in developing the software engineering tools to build user-interface.   [16]

8. Discuss briefly about audio tones, audiolization and music. What are their roles in interaction with computer?   [16]

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Code No: K0525   **R07**   **Set No. 4**

IV B.Tech II Semester Supplementary Examinations, July/Aug 2012
HUMAN COMPUTER INTERFACE
(Computer Science & Engineering)

Time: 3 hours   **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks
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1. Give a brief note about the development of human-computer interface in chrono-
   logical order.   [16]

2. Give a detailed note about the principles for the Xerox START, Which established
   the foundation for the Graphical interface.   [16]

3. (a) Give a note for guidelines for collecting requirement.

   (b) Give a brief note about indirect methods of determining requirements. [8+8]

4. Explain the mechanisms which convey the depth of levels or 3-D appearance in
   detail.   [16]

5. Explain the following screen based controls, and also explain their respective ad-
   vantages and disadvantages.

   (a) Drop-down/pop-up list boxes

   (b) Drop-down/pop-up combo boxes.   [8+8]

6. What is an icon? What are the various kinds of icons? Explain them clearly. [16]

7. Give a brief note about different widget supports and interface features supported
   in user-interface building tools.   [16]

8. Write brief notes on the following:

   (a) Function keys

   (b) Cursor movement keys.   [8+8]

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