

B.TECH DEGREE EXAMINATIONS: APRIL/MAY 2014

(Regulation 2009)

Fifth Semester

INFORMATION TECHNOLOGY

ITY106: User Interface Design

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Which of the following interface design principles does not allow the user to remain in control of the interaction with a computer?
 - a) allow interaction to interruptible
 - b) allow interaction to be undoable
 - c) hide technical internals from casual users
 - d) only provide one defined method for accomplishing a task
2. Which of these are attributes of usability?
 - a) Learnability
 - b) Generalisability
 - c) Usefulness.
 - d) None of these
3. A human-computer interaction method where explicit statements are entered into a system to invoke operations
 - a) command language interaction
 - b) natural language interaction
 - c) machine language interaction
 - d) object-based interaction
4. This type of menu positioning method places the access point of the menu near the top line of the display; when accessed, menus open by dropping down onto the display.
 - a) pop-up menu
 - b) drop-down menu
 - c) box menu
 - d) cursor menu
5. Also known as schematics, a way of illustrating the layout of an individual webpage is a:
 - a) blueprint.
 - b) wireframe.
 - c) card sorting.
 - d) sitemap.
6. A graphical or text depiction of the relationship between different groups of content on a website is a:
 - a) cascading style sheet (CSS).
 - b) site map.
 - c) page template.
 - d) none of these.
7. The common property of windows and forms in a graphical user interface environment that requires users to resolve the request for information before proceeding is:

- a) maximize
 - b) modality
 - c) movable
 - d) system menu
8. A formal method for designing and representing human-computer dialogues using box and line diagrams is referred to as:
 - a) interface design
 - b) dialogue diagramming
 - c) state-transition diagramming
 - d) entity-relationship diagramming
 9. Your new sound card is packaged in a plastic anti-static bag. The bag is sealed with a yellow sticker with a written warning not to expose the card to static electricity. The sticker is an example of:
 - a) perceptual constraint
 - b) cultural constraint
 - c) physical constraint
 - d) logical constraint
 10. A multimedia file
 - a) is same as any other regular file
 - b) must be accessed at specific rate
 - c) stored on remote server cannot be delivered to its client
 - d) none of the mentioned

PART B (10 x 2 = 20 Marks)

11. Define Property Attribute Specification
12. What is User Assistance in Web Interface Design?
13. What is meant by Verbal linkage and Spatial Linkage?
14. What are the advantages and disadvantages of Cascading Menu?
15. How window is organized?
16. What is a frame? Mention its advantages and disadvantages?
17. What is known as Cognitive Disabilities?
18. What is known as icons?
19. What is meant by prototypes?
20. Write a note on Hypermedia

PART C (5 x 14 = 70 Marks)

21. a) Mention the Advantages and Disadvantages of GUI in detail

(OR)

- b) Write a detail note on Characteristics of Web User Interface

22. a) (i) Explain the Structure of Menus (7)
(ii) Explain the Menu can be phrased (7)

(OR)

- b) What is Statistical Graphics? Explain the Components of a Statistical Graphics

23. a) (i) Explain the types of Device Based Controls (7)
(ii) Explain the guidelines for selecting the proper device-based controls? (7)

(OR)

- b) Explain how windows are useful Explain its Components.

24. a) What is Text? Write a note on presenting text and writing text

(OR)

- b) Discuss briefly about windows Guidelines and Web page Guidelines.

25. a) What are the steps for developing and conducting test?

(OR)

- b) (i) Explain WWW with example (7)
(ii) Discuss Briefly any two Software tools for UI design. (7)
