PAPER ID-310067

Roll No: | | | | | | | | | | | | |

B TECH
(SEM-VII) THEORY EXAMINATION 2020-21
HUMAN COMPUTER INTERFACE

Time: 3 Hours ***Total Marks: 70***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 7 = 14

a.	What are the characteristics of direct manipulation?
b.	Define foveal and peripheral vision.
c.	What are the qualities of visually pleasing composition?
d.	Write down the six interaction tasks for pointing devices.
e.	Write down some perceptual characteristics.
f.	List commonly used software tools.
g.	What are problem with color?

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21

a.	What is meant by intranet? Describe the characteristics of intranet versus the internet.
b.	Explain human computer interaction. What are the factors that make system difficult to use?
c.	Define statistical graphics. Explain the components of statistical graphics.
d.	Write short note on the following: (i) icon animation and audition. (ii) Multimedia.
e.	Describe image and video displays. What are the characteristics of ideo display devices?

SECTION C

3. Attempt any *one* part of the following: 7 x 1 = 7

(a)	What do you mean by user interface? Describe the principles of user interface. Why user interface is important?
(b)	Explain the following: i) History of screen design, ii) Graphical user interface

4. Attempt any *one* part of the following: 7 x 1 = 7

(a)	What are the basic business functions? Discuss business and requirement analysis.
(b)	Explain human interaction speed. What are the methods for gaining an understanding of users?

5. Attempt any *one* part of the following: 7 x 1 = 7

(a)	Discuss the following: i) Webpage size, ii) Scrolling and paging
(b)	What do you meant by screen design? Discuss the techniques to rovide emphasis.

6. Attempt any *one* part of the following: 7 x 1 = 7

(a)	What are the advantages and disadvantages of: i) Trackball, ii) Touch Screen, iii) Joystick
(b)	Define window and its characteristics. What are the components of window?

7. Attempt any *one* part of the following: 7 x 1 = 7

(a)	Define interface building tools in detail.
(b)	Write short note on the following: i) speech digitization and generation, ii) speech recognitions.

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