

**B.TECH. SEM -V INFO. TECH. 2014 COURSE (CBCS) : WINTER -
2017**

SUBJECT: ELECTIVE-I 3) HUMAN COMPUTER INTERACTIONS

Day: Saturday

Time 02.30 PM TO 05.30 PM

Date: 20/01/2018

W-2017-2155

Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat diagram **WHEREVER** necessary.
- 4) Assume suitable data, if necessary.

Q.1 a) Explain the importance of good design. (05)

b) What is brief history of screen design? (05)

OR

What is HCL? Explain the guidelines for interface design with suitable examples. (10)

Q.2 Describe advantages & disadvantages of graphical system. (10)

OR

a) What is direct manipulation? How direct manipulation is used in car design? (05)

b) You are given a task of designing a website of your organization. What different actions you would take to make website more popular? (05)

Q.3 a) How people can interact with computer? How people are getting trouble with computers? (05)

b) Explain the human characteristics of design process. (05)

OR

a) What is human factor? How do you apply human factors while designing an interface? (05)

b) What are the different approaches used to design a interface for a physically abled users / persons? (05)

Q.4 Explain screen based & device based control mechanism in detail. (10)

OR

College authorities have decided to process daily attendance of the students in the class. They are expecting following: (10)

- a) Less time wastage while taking attendance.**
- b) Reduction of manual data entry of present or absent students on portal.**
- c) Eradicate fake attendance by students.**
- d) Online monitoring of class.**

P.T.O.

You need to suggest a user Interface which will satisfy the needs. Justify with suitable diagram.

Q.5 a) What are various tools in building graphical user interface? **(05)**

b) Explain different types of windows. **(05)**

OR

What modification you would suggest to design a window interface for persons above 80 years of age? Draw suitable diagram to justify your answer. **(10)**

Q.6 Write short note on: **(10)**

a) Speech recognition

b) Video displays-drives

c) Keyboard & function.

OR

Explain various problems with video display devices? What modifications are suggested to make video displays more user friendly? **(10)**

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