

Total No. of Questions : 12]

P1912

505-15

SEAT No. :

[Total No. of Pages : 2

[4861]-45

S.Y.M.C.A. (Engg.)

1-HUMAN COMPUTER INTERFACE

(2008 Course) (610913) (Semester - IV) (Elective-I)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *From Section-I, answer (Q1 or Q2) and (Q3 or Q4) and (Q5 or Q6).*
- 2) *From Section-II, answer (Q7 or Q8) and (Q9 or Q10) and (Q11 or Q12).*
- 3) *Answers to the two sections should be written in separate answer books.*
- 4) *Neat diagrams must be drawn wherever necessary.*
- 5) *Figures to the right side indicate full marks.*
- 6) *Assume suitable data if necessary.*

SECTION-I

- Q1)** a) What are different Human factors that are to be considered while designing the user interface? Explain with the help of suitable examples. [6]
- b) What is reasoning? Explain different type of reasoning with example. [5]

OR

- Q2)** a) Explain the goals of user interface design. [6]
- b) Explain the similarities and differences in human memory and computer memory? [5]

- Q3)** a) Explain EIGHT golden rules of interface design. Give suitable examples to justify your answer. [6]
- b) Explain how GOMS and the keystroke-Level Model support the interaction design process. [6]

OR

- Q4)** a) With help of Norman's Model of interaction explain the process of execution evaluation cycle. What is meant by gulf of execution and gulf of evaluation with respect to this model? [6]
- b) Explain any three interaction styles with advantages and disadvantages. [6]

P.T.O.

- Q5) a)** State and explain three pillars of interface design process. [6]
b) What is participatory design? Explain with suitable example. [6]

OR

- Q6) a)** Explain the best practices in screen design. [6]
b) Explain the design process used for designing an application for senior citizens. [6]

SECTION - II

- Q7) a)** Explain with valid examples how alignment and use of white spaces in text matter in designing layouts of screens in a user interface. [6]
b) What is navigation design? Explain with suitable examples? [5]

OR

- Q8) a)** What is acceptance test for Usability? What is an expert review? [6]
b) Explain the different types of menus with example. [5]

- Q9) a)** Explain an importance of hypertext over linear paper document. List important considerations for creating good hypertext document. [6]
b) Explain what is meant by command organization strategies. [6]

OR

Q10) Explain how CSCW systems are useful for co-operative working in detail. [12]

Q11) Explain the seven tasks in information visualization. [12]

OR

Q12) Propose and discuss some ways the web may be made more accessible to the visual impaired either through browser design or web page design. [12]

