

AQ – 2711

Second Semester M. E. (Computer Engineering) Examination

HUMAN COMPUTER INTERFACES

Paper - 2 KMEF 4

(Elective - II)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

Note : (1) Illustrate your answer wherever necessary with the help of neat sketches.

1. (a) What is MBTI (Myers-Briggs Type Indicator) ? How MBTI provides relationship between professions and personality types ? 7
- (b) What are the different parameters required for accommodation of human diversity ? Explain each in brief. 7

OR

2. (a) Write and explain eight golden rules of interface design. 7
- (b) Explain Object–Action interface model with proper diagram. 7
3. (a) Explain Development Methodologies with their stages. 6
- (b) What is usability engineering ? How it is helpful in software project planning ? 7

OR

4. (a) What are the various Interface Building tools used in interfacing ? 6
- (b) Write and discuss the different steps used in the rapid contextual design method. 7
5. (a) What are basic principles of direct manipulator ? 6
- (b) Which applications require virtual and augmented reality ? Give examples of context aware devices. 7

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OR

6. (a) What is the need of computer aided design ? Explain. 6
(b) Why virtual reality modeling Language (VRML) are not successful? 7
7. (a) Give example of direct control painting devices. What are types of interaction tasks where painting devices are more useful ? 7
(b) Explain printers in detail with its criteria. 6

OR

8. (a) Explain keyboards and its function keys in detail with proper diagram. 7
(b) What are the different painting devices in UI design ? 6
9. (a) Explain in brief face-to-face interface same place, same time. 7
(b) What is Individual-window Design ? Explain difference between individual-window design and multiple-window design. 7

OR

10. (a) Explain 'Asynchronous Interaction' in brief. 7
(b) What are the goals of co-operation ? Explain the goals and tasks of the participants in co-operative work. 7
11. (a) How page rank is used to compute query-independent score for each document ? 6
(b) Explain database query and phrase search in textual documents. 7

OR

12. (a) Why query by example (QBE) is considered as powerful approach than other search methods ? 6
(b) What is advance filtering ? Explain with model diagram. 7

