

5. University Questions / Question Bank (2marks and 10 Marks)

HUMAN COMPUTER INTERACTION: CS4206PE

Unit I

S.no	Questions	BT	CO
	Part – A (Short Answer Questions)		
1	What is the importance of good design?	1	1
2	What are the benefits of good design?	1	1
3	What are the characteristics of web pages?	1	1
4	What are the problems with direct manipulation?	1	1
5	List the Principles of user interface.	1	1
6	What is Graphical User Interface in HCI?	1	1
7	List the features of a Graphical User Interface.	2	1
8	What is good and bad design in HCI?	1	1
9	List the three characteristics of a good design.	2	1
10	Give a note on history of Screen design.	1	1
	Part – B (Long Answer Questions)		
1	Differences between GUI and web user interface	2	1
2	State various principles considered in the design of Xerox STAR	3	1
3	Explain the concept of direct and indirect manipulation.	4	1
4	List and explain the general principles of user interface design.	2	1
5	Explain the characteristics of the graphical user interface.	2	1
6	Define user interface. List and explain the benefits of good design	4	1
7	Explain the principle of uniformity in user interface design.	2	1
8	Discuss about container objects in detail.	3	1
9	What are the difficulties in designing web interface design? Explain	2	1
10	List and explain the benefits of good design	4	1

Unit II

S.no	Questions	BT	CO
	Part – A (Short Answer Questions)		
1	What are the important human characteristics that have an influence on design?	1	1
2	What is the role of screen navigation in screen design?	1	1
3	What are the goals of user interface designer?	1	1
4	Write the guidelines for building metaphors	1	1
5	What are the problems with search facility?	1	1
6	What are the important human characteristics that have an influence on design?	1	1
7	What is the objective of requirements analysis?	2	1
8	What are the psychological user responses to poor design?	1	1
9	What is screen design in human computer interaction?	2	1
10	What are the design goals while designing a screen?	1	1
	Part – B (Long Answer Questions)		
1	Explain the process of determining basic business functions	2	1
2	Write the guidelines for designing conceptual models	3	1
3	Explain Scatter plots with example.	4	1
4	Write about the qualities of screen elements	2	1
5	Describe the Technological consideration in interface design.	2	1
6	What are human considerations in screen design in HCI? Explain	4	1
7	Discuss the information retrieval on web.	2	1
8	List and explain the different types of statistical graphics.	3	1
9	Explain the Human interaction with computers.	2	1
10	What is visually pleasing composition in HCI? Explain	4	1

Unit III

S.no	Questions	BT	CO
	Part – A (Short Answer Questions)		
1	What are the advantages of tiled windows?	1	1
2	What are the functions of menus?	1	1
3	Write about various GUI controls in brief.	1	1
4	What are the factors that influence the icon's usage?	1	1
5	Give the uses, advantages and disadvantages of audition	1	1
6	What are the strengths and weaknesses of cascading menus?	1	1
7	Differentiate between system, status and warning messages	1	1
8	What is the impact of inefficient screen design?	1	1
9	What are the guidelines for choosing colors in HCI?	1	1
10	How do colors play a major role in UI design?	1	1
	Part – B (Long Answer Questions)		
1	Briefly discuss about operable controls	2	1
2	Write the guidelines for presenting error messages on web.	3	1
3	What are the components of a web navigation system? Explain	4	1
4	List out the factors for using icons and explain.	2	1
5	What are the functions of menus? Explain them in brief	2	1
6	List and explain the different types of windows in HCI.	4	1
7	What are windows? Explain the types of windows.	2	1
8	Explain the Components text and messages in HCI.	3	1
9	Give a brief note on Multimedia.	2	1
10	Why are icons important in designing user interface? Describe	4	1

Unit IV

S.no	Questions	BT	CO
	Part – A (Short Answer Questions)		
1	Define interactive design.	1	1
2	What is meant by design evaluation?	1	1
3	What is meant by Universal design?	1	1
4	What is HCI software process?	1	1
5	What are golden rules and heuristics in HCI?	1	1
6	What is heuristic evaluation method in HCI?	1	1
7	What are the principles of universal design in HCI?	1	1
8	What is multimodal HCI system?	1	1
9	What are the goals of evaluation through expert analysis in HCI?	1	1
10	What is the expert method of evaluation?	1	1
	Part – B (Long Answer Questions)		
1	Explain the HCI in the software process	2	1
2	Discuss the Evaluation through user participation.	3	1
3	Explain the main approaches to prototyping.	4	1
4	Describe the approaches to expert analysis.	2	1
5	Explain Shneiderman's Eight Golden Rules of Interface Design.	2	1
6	Explain multi-modal interaction.	4	1
7	Describe different approaches to evaluation through user participation.	2	1
8	Write short notes on standards and milestones in user-interface design.	3	1
9	List and explain the Goals of evaluation.	2	1
10	Explain the activities in the software life cycle with neat diagram.	4	1

Unit V

S.no	Questions	BT	CO
Part – A (Short Answer Questions)			
1	What is the goal of cognitive model in HCI?	1	1
2	What is goal and task hierarchies model in HCI?	1	1
3	What is cognitive model and architecture in HCI?	1	1
4	What are the applications of augmented reality information in HCI?	1	1
5	What is task-centered design in HCI?	1	1
6	Define Ubiquitous computing.	1	1
7	List the Linguistic models	2	1
8	Give a note on augmented reality.	1	1
9	List the three types of design in HCI?	2	1
10	What is meant by data visualization?	1	1
Part – B (Long Answer Questions)			
1	List categories of cognitive models. Explain keystroke-level model.	2	1
2	Describe GOMS model for the hierarchical structuring of user's task and goal structures.	3	1
3	Explain Three-state model in detail.	4	1
4	Describe cognitive complex theory (CCT) model.	2	1
5	Write a short note on linguistic models: BNF and Task-action grammar (TAG).	2	1
6	Can GOMS saves money? Explain	4	1
7	List and explain the different “design focuses”.	2	1
8	Explain the Applications of augmented reality Information and data visualization.	3	1
9	Write a short note data visualization.	2	1
10	Write a short note on cognitive architectures: the problem space model and ICS.	4	1