PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2024
(First Semester)

Branch - COMPUTER SCIENCE

HUMAN COMPUTER INTERACTION

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which of the following are primary objective of Human Computer Interface? A. Ways to design and assess interactive systems B. Ways to reduce design time through cognitive system and task models C. Procedures and heuristics for interactive system design D. All of the above	K1	CO1
	2	_____ is the goal of Human-computer interaction (HCI). A. To create technology that is intuitive, efficient, and effective for users B. To create technology that is only used by experts C. To create technology that is cheap D. To create technology that is complex and hard to use	K2	CO1
2	3	Which of the following are important in the design focus of HCI? A. Thinking of the user B. Testing the HCI C. Involving the users D. All of the above	K1	CO2
	4	A successful direct manipulation interface must present_____ A. A complex series of user choices B. An appropriate representation or model of reality C. The option for users to enter a long string of commands D. Mixed metaphor so that users don't become bored.	K2	CO2
3	5	A combination of Toggle Selection and Object Selection is, A. Collected Selection B. Multiple Selection C. Hybrid Selection D. None of the Above	K1	CO3
	6	A field of technology that deals with a combination of real world and the data generated from computer. A. ML B. AI C. AR D. IoT	K2	CO3
4	7	Which of the following is new forms of interaction in HCI? A. Gesture-based interfaces B. Touchscreens C. Voice recognition D. All of the above	K1	CO4
4	8	Find the collaboration between two or three people who need each other to complete a task? A. Focused partnerships B. Lecture or demo C. Conferences D. Online communities	K2	CO4
5	9	A negative contrast on display screen result in to increasing the A. Reusability B. Quality C. Legibility D. Interactivity	K1	CO5
	10	Which of the following is a specific form of error message? A. Syntax error B. Illegal entry C. Invalid data D. Unmatched left parenthesis	K2	CO5

SECTION - B (35 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain how organization design support usability.	K5	CO1
		(OR)		
	11.b.	Discuss the issues and challenges involved in designing menus for small display units.		
2	12.a.	Compare and contrast between three and Four pillars of design.	K4	CO2
		(OR)		
	12.b.	Illustrate with suitable example about survey instruments.		
3	13.a.	Discuss the issues and challenges involved in designing menus for small display units.	K6	CO3
		(OR)		
	13.b.	Distinguish between Virtual reality and Augmented Reality.		
4	14.a.	Compare and contrast direct control pointing devices and indirect control pointing devices.	K4	CO4
		(OR)		
	14.b.	What is a Computer Keyboard? Explain about various Keyboards and Keypads available for Small devices		
5	15.a.	Explain the following with respect to icons Types Characteristics Usability Choosing	K5	CO5
		(OR)		
	15.b.	Explain in detail about the factors considered in choosing colors.		

SECTION -C (30 Marks)
Answer **ANY THREE** questions
ALL questions carry **EQUAL** Marks   (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	What is usability in user interface design. Why usability is so important? Explain the principles of UI design.	K6	CO1
2	17	Explain the usability measures, which focus on efficiency, and satisfaction, to do practical evaluation.	K5	CO2
3	18	Why direct manipulation of all screen objects and actions may not be feasible? Give proper explanation and also explain how it can be solved in indirect manipulation.	K6	CO3
4	19	Enumerate the goals of collaboration and participation, also compare and contrast asynchronous distributed interfaces and Synchronous distributed interfaces.	K4	CO4
5	20	Explain the importance and impact of using colors in the design of error and warning messages.	K5	CO5

Z-Z-Z   END