

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023  
(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	_____ is the study of how people interact with computers and other digital devices. a. Psychology and design b. Human-computer interaction (HCI) c. Engineering and design d. Natural language processing	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	Find which is used for user interface requirements. a. Ethnographic observation      b. Theories and models c. Algorithms and Prototypes      d. Controlled experiments	K1	CO2
	4	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	K2	CO2
3	5	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	K1	CO3
	6	Which of the following is not a character of direct manipulation interfaces? a. Visibility of the objects and actions of interest b. Menu selection and form fill-in c. Rapid, Reversible, increment actions d. Replacement of typed commands by a pointing action on the object of interest	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
	8	Which of the following is a good idea when designing menus for a small screen device like a phone? a. Simplify. Focus on important functions, relegate others to other platforms b. Present as many functions as possible c. Always sequence menu items in alphabetical order d. Don't worry about learnability	K2	CO4

Cont...



5	9	Conventional wisdom says that _____ tell the user when he has made some mistake. a. Program crash      b. System struck c. Error messages      d. Meta-data	K1	CO5
	10	A negative contrast on display screen result in to increasing the a. Reusability      b. Quality c. Legibility      d. Interactivity	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 the following principles of user interface design. i. Transparency      ii. Simplicity iii. Responsiveness      iv. Recovery	K2	CO1
		(OR)		
	11.b.	Interpret the importance of user interface and benefits of good design.		
2	12.a.	Analyze the 4 pillars of successful user interface design.	K4	CO2
		(OR)		
	12.b.	Examine about evaluation during Active use.		
3	13.a.	Explain about 3D Interfaces.	K3	CO3
		(OR)		
	13.b.	Identify the importance of audio menus for small display units.		
4	14.a.	Write in brief the advantages and disadvantages of touch screen.	K5	CO4
		(OR)		
	14.b.	Explain why speech recognition still does not match the fantasy of science fiction.		
5	15.a.	Explain the following with respect to windows with an example Tool bar Split box Command area Work area Menu bar	K6	CO5
		(OR)		
	15.b.	Discuss the significance Nonanthromorphic design.		

**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	Explain about universal usability.	K5	CO1
2	17	Analyze the various user interface design evaluations.	K4	CO2
3	18	Discuss the significance of Virtual reality and Augmented reality applications in various domains.	K6	CO3
4	19	Assess the various interfaces in UI design.	K5	CO4
5	20	Explain the requirements for personal role management of Window design.	K5	CO5