

**PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR**  
**CAT- 1 (2023-2024)**

**Department :-** Computer Technology  
**Subject :-** Human Computer Interface  
**Duration :** 1.5 Hrs

**Semester :-** VII 'A/B'  
**Subject Code :-** BTCT702T  
**Max Marks :-** 35

**Note:** 1) All Questions are Compulsory  
 2) All Questions Carry Marks as Indicated

Q. No.	Questions	Marks	CO	BL
Q 1. I.	What is a semantic network?	1 M	CO1	I
A)	A. A model of short-term memory B. A model of long-term memory C. A model of physical memory D. A model of short and long-term memory			
II.	For a product to be successful, it must be:	1 M		I
	A. Useful by humans B. Usable by humans C. Used by humans D. All of the above	4		
B)	Explain in detail about Reasoning and problem solving?	5 M		II
C)	Describe five important differences between Short Term Memory and Long-Term Memory	7 M		II
<b>OR</b>				
Q 2. I.	What are the major input senses?	1 M	CO1	I
A)	A. Sight,Hearing B. Touch C. Taste,Smell D. All the above			
II.	A sensory memory exists for _____ channel	1 M		I
	A. haptic B. Visual C. iconic D. All of the above			
B)	Define interaction. Explain the Models – frameworks of it?	5 M		I
C)	Briefly discuss about the types of memory in detail.	7 M		II
Q 3. I.	Which of the following are important in the design focus of HCI?	1 M	CO2	I
A)	A. Thinking of the user B. Testing the HCI C. Involving the users D. All of the above	4		
II.	What are the steps involved in designing	1 M		I
	A. Communication B. Validation of models C. Time constraints D. All of the above			
B)	Explain in detail about process of design with suitable examples.	5 M		II
C)	Briefly discuss about the three main approaches to prototyping.	7 M		II

**OR**



Q 4. I. Design involves	1 M	CO2	I
A) A. achieving goals within constraints and trade-off between these			
B. understanding the raw materials: computer and human			
C. accepting limitations of humans and of design			
D. All of the above			
II. There are _____ Normans principles	1 M		I
A. 6			
B. 7			
C. 8			
D. 9			
B) Explain the software life cycle process in a HCI software process.	5 M		II
C) With a neat sketch, describe about Interaction design process and golden rule of Design.	7 M		I
Q 5. I. Cognitive model represents	1 M	CO3	I
A) A. interactive user			
B. Design of a model			
C. Screen			
D. None of the above			
II. Who are stakeholders?	1 M		I
A. users in potential interest			
B. users are affected by success or failure of a system			
C. None of the above			
D. All of the above			
B) What is meant by GOMS? give an example.	2 M		I
C) Describe cognitive model and its techniques.	3 M		II

OR

Q 6. I. Difference between goal and task?	1-M	CO3	II
A) A. goals – intentions what you would like to be true and internal, tasks – actions how to achieve it, actions external			
B. goals – intentions what you would like to be true and external, tasks – actions how to achieve it, actions external			
C. goals – intentions what you would like to be true and external, tasks – actions how to achieve it, actions internal			
D. None of the above			
II. What is GOMS?	1 M		I
A. Goals			
B. operator			
C. methods			
D. selections			
E. All of the above			
B) What are the organizational issues present in socio organization?	2 M		I
C) Explain in detail about goal and task hierarchies.	3 M		II