Printed Page	ge:- Sub	ject Code:- ACSE0203			
	Rol	l. No:			
1	NOIDA INSTITUTE OF ENGINEERING AND	TECHNOLOGY, GREATER NOIDA			
(An Autonomous Institute Affiliated to AKTU, Lucknow)					
B.Tech					
SEM: II - CARRY OVER THEORY EXAMINATION - SEPTEMBER 2022					
Subject: Design Thinking-I					
Time: 3 H	Hours	Max. Marks: 100			
General Inst	atmatic na				
		Voy are expected to ensure them as directed			
-	stion paper comprises three sections, A, B, and C. A - Question No- 1 is 1 marker & Question No- 2	-			
	B - Question No-3 is based on external choice car				
	C - Questions No. 4-8 are within unit choice ques				
	t should be left blank. Any written material after a				
	SECTION A	20			
1 1 440		20			
1. Attempt a					
1-a.	The types of observers are: (CO1)	1			
	(a) Complete Observer				
	(b) Complete Participant				
	(c) Observer as Participant				
	(d) All of the above				
1-b.	As per the definition of Design Thinking by I	DEO, which one is the main component?			
((CO1)				
	(a) Desirability				
	(b) Feasibility				
	(c) Viability				
	(d) All of the above				
1-c.	After you empathize, the next step is to	_: (CO2)			
	(a) Ideate				
	(b) Feel				
	(c) Define				

	(d) Prototype	
1-d.	Breaking down a problem into its constituent parts during team discussion is which of the following steps in the standard agenda? (CO2)	1
	(a) Analysing the problem	
	(b) Identification of problem	
	(c) Evaluation Problem Solutions	
	(d) Criteria development	
1-e.	A good problem statement should have the following traits: (CO3)	1
	(a) Human-centered	
	(b) Broad enough for creative freedom	
	(c) Narrow enough to make it manageable	
	(d) All of the above	
1-f.	Characteristics required for successful ideation are: (CO3)	1
	(a) Adapting	
	(b) Connecting	
	(c) Disrupting	
	(d) All of the above	
1-g.	Critical thinking concerns with: (CO4)	1
	(a) Determining the cause of our beliefs	
	(b) Pinpointing the psychological basis of our beliefs	
	(c) Determining the quality of our beliefs	
	(d) Assessing the practical impact of our beliefs	
1-h.	Arguing that a claim must be true merely because a substantial number of people believe it is called the fallacy of: (CO4)	1
	(a) Tu quoque	
	(b) Composition	
	(c) Appeal to the masses	
	(d) Appeal to reason	
1-i.	An argument intended to provide logically conclusive support for its conclusion is: (CO5)	1
	(a) Inductive	
	(b) Valid	
	(c) Deductive	

	(d) Sound	
1-j.	It is impossible for a valid argument to have true premises and: (CO5)	1
	(a) A true conclusion	
	(b) A negated conclusion	
	(c) A conditional	
	(d) A false conclusion	
2. Atter	mpt all parts:-	
2.a.	Explain fear element of DCAFE forces. (CO1)	2
2.b.	Explain the ethical behaviour.(CO2)	2
2.c.	Describe How Might We (HMW) questions. (CO3)	2
2.d.	Define fundamental concepts of critical thinking. (CO4)	2
2.e.	Is critical thinking primarily about what you think or how you think? Explain. (CO5)	2
	SECTION B 30	
3. Ansv	wer any <u>five</u> of the following:-	
3-a.	Discuss the framework for Creativity and Innovation. (CO1)	6
3-b.	Explain each one of the three capacity levers that drive the design mind. (CO1)	6
3-c.	Enumerate significant characteristics of socialiation. (CO2)	6
3-d.	Describe the brainstorming with its benefits.(CO2)	6
3.e.	Describe Edward de Bono's six thinking hats and explain their role in problem solving. (CO3)	6
3.f.	Describe the characteristics of a well cultivated critical thinker. (CO4)	6
3.g.	Differentiate between deductive argument and an inductive argument. (CO5)	6
	SECTION C 50	
4. Ansv	wer any <u>one</u> of the following:-	
4-a.	Discuss in detail key elements of the design thinking process. Also draw a neat and clean diagram. (CO1)	10
4-b.	Describe the role of innovation and creativity for any organization. (CO1)	10
5. Ansv	wer any <u>one</u> of the following:-	
5-a.	"Physical facilities are necessary and complete for animals, while they are necessary but not complete for humans." Comment. (CO2)	10
5-b.	Describe the empathy map and its application.(CO2)	10

6. Answer any one of the following:-A financial advisor needs a way to have meaningful conversations with more clients because 10 6-a. business grows through genuine conversation with clients, not through paperwork. Create a POV statement in this reference. (CO3) 6-b. Name few online tools available for Design thinking process. (CO3) 10 7. Answer any one of the following:-7-a. Compare and contrast between argumentation and rhetoric. (CO4) 10 7-b. Describe the skills required for critical thinking. Can these skills be acquired or they are 10 innate? Opine for both. (CO4) 8. Answer any one of the following:-8-a. Describe the logic. Also differentiate between premise and conclusion. (CO5) 10 Explain various components of scientific reasoning. Discuss its role in reaching a fair 8-b. 10

conclusion. (CO5)