Printed Page:- 03	Subject Code:- BCSE0103/BCSEH0103 Roll. No:
NOIDA INSTITUTE OF ENGINEERING A (An Autonomous Institute Af B.T SEM: I - THEORY EXAM	AND TECHNOLOGY, GREATER NOIDA ffiliated to AKTU, Lucknow) ech
Subject: Design	-
Time: 2 Hours	Max. Marks: 50
General Instructions: IMP: Verify that you have received the question is	naner with the correct course, code, branch etc
1. This Question paper comprises of three Section	_
Questions (MCQ's) & Subjective type questions.	•
2. Maximum marks for each question are indicate	· -
3. Illustrate your answers with neat sketches whe	rever necessary.
4. Assume suitable data if necessary.5. Preferably, write the answers in sequential ora	ler
6. No sheet should be left blank. Any written mate	
evaluated/checked.	,
SECTION-A	15
1. Attempt all parts:-	
1-a is about deep listening to ea	ach other without biases and judgement.
(CO1)	
(a) Observation	
(b) Dialogue	
(c) Debate	
(d) Hearing	
1-b. Self exploration uses two mechanism, r	natural acceptance and (CO2)
(a) Reason	
(b) Experimental Validation	
(c) Logical thinking	
(d) Theoretical concepts	
1-c. A good problem statement should have	the following traits: (CO3)
(a) Human-centered	
(b) Broad enough for creative freedom	
(c) Narrow enough to make it managea	ble
(d) All of the above	
1-d. People tend to divide themselves into g to their own group. Which bias does this	roups, and then attribute positive attributes 1 is refer? (CO4)
(a) Ingroup Preference Bias	

	(b)	Confirmation Bias	
	(c)	Anchoring Bias	
	(d)	Choice-supportive Bias	
1-e.		n argument intended to provide logically conclusive support for its conclusion is: CO5)	1
	(a)	Inductive	
	(b)	Valid	
	(c)	Deductive	
	(d)	Sound	
2. Att	empt a	ıll parts:-	
2.a.	W	That are stated and unstated needs? (CO1)	2
2.b.	W	That do you understand by prosperity?(CO2)	2
2.c.	W	That are the traits of good problem statement? (CO3)	2
2.d.	W	That are the five pillars of critical thinking?(CO4)	2
2.e.	W	That is a premise and conclusion? (CO5)	2
SEC.	ΓΙΟΝ-	${f B}$	15
3. An	swer a	ny <u>three</u> of the following:-	
3-a.		That is a wicked problem? Why are they difficult to solve? State their naracteristics. (CO1)	5
3-b.	D	escribe the empathy map and its application.(CO2)	5
3.c.		pply the HMW on Question as assumption: HMW entirely remove the wait time the airport? (CO3)	5
3.d.	I11	ustrate tribalism. Analyze with the example related to it. (CO4)	5
3.e.		That do you understand by the term logical fallacy and describe how to avoid gical fallacies using deductive reasoning. (CO5)	5
SEC:	ΓΙΟΝ-	\mathbf{c}	20
4. An	swer a	ny <u>one</u> of the following:-	
4-a.		That are 3 laws of Design Thinking? Apply them to suggest an idea to make a Job arch Portal. (CO1)	4
4-b.	W	That are five frictional forces that drive design? (CO1)	4
5. An	swer a	ny <u>one</u> of the following:-	
5-a.	G	ive an illustration of CATWOE analysis. (CO2)	4
5-b.		That do you understand with Journey mapping? Create a Journey map of a RCTC application user. (CO2)	4
6. An	swer a	ny <u>one</u> of the following:-	
6-a.		That do you understand with Define Stage of Design Thinking? Explain 5 Whys ol with two examples. (CO3)	4
6-b.	W	That do you understand with 6 Thinking Hats? Apply 6 thinking hats to solve the	4

following problem: Customers at a pizzeria are complaining as the waiting time to get their pizzas has become longer. (CO3)

- 7. Answer any one of the following:-
- 7-a. How can you become a better critical thinker? (CO4)
- 7-b. Elaborate Recency Effect and Zero-risk Bias with example. (CO4)
- 8. Answer any one of the following:-
- 8-a. Differentiate between deductive argument and an inductive argument. If a beverage is "drinkable through a straw" explain it in deductive and inductive way of argument. (CO5)
- 8-b. What do you understand by logical fallacies? Enlist any five logical fallacies. 4 (CO5)