Printed Page:-03		Subject Code:- BMICSE0103 Roll. No:								
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NO	IDA '	INSTITUTE OF ENGINEERING A	ND TECHN		OGY.	GRE	ATE	RNO)A
(An Autonomous Institute Affiliated to AKTU, Lucknow)										
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		SEM: I - THEORY EXAM		,	3 - 20)24)				
	2 T	Subject: Design	n Thinking-	I			3.4	3.4		5 0
	e: 2 F	1ours structions:					Max	x. M	ark	s: 50
		structions: y that you have received the question p	aner with the	e cori	ect c	ourse	code	bra	nch	etc
		stion paper comprises of three Section	-							
		MCQ's) & Subjective type questions.	, ,			J	1			
2. <i>Ma</i> .	ximun	n marks for each question are indicated	d on right -he	and s	ide of	each	questi	ion.		
		your answers with neat sketches where	ever necessa	ry.						
		uitable data if necessary.								
•	,	ly, write the answers in sequential orde should be left blank. Any written mater		lank s	hoot	will n	ot ha			
		snouta be teji blank. Any written mater hecked.	iai ajier a vi	iarik s	neei	wiii ne	n ve			
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SECT	ION-	· <u>A</u>								15
1. Atte	empt a	all parts:-			Ν.					
1-a.	•	is about deep listening to eac	ch other with	out b	iases	and iu	ıdgem	ent.		1
	((CO1)				J.				
	(a)	Observation	11							
	(b)	Dialogue								
	(c)	Debate								
	(d)	Hearing								
1-b.	Se	elf exploration uses two mechanism, na	atural accept	ance	and _		((CO2	2)	1
	(a)	Reason								
	(b)	Experimental Validation								
	(c)	Logical thinking								
	(d)	Theoretical concepts								
1-c.	A	good problem statement should have t	the following	g trait	s: (C0	O3)				1
	(a)	Human-centered								
	(b)	Broad enough for creative freedom								
	(c)	Narrow enough to make it manageab	le							
	(d)	All of the above								
1-d.		eople tend to divide themselves into gro their own group. Which bias does this	-		ribute	posit	ive att	tribu	tes	1
	(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.		Apply the HMW on Question as assumption: HMW entirely remove the wait time at the airport? (CO3)				
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)