Printed Page:- 03		got 02 Subject Codes A CSDS0502				
rrinte	ea Pa	ge:- 03 Subject Code:- ACSBS0503 Roll. No:				
NO	IDA	INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA				
110		(An Autonomous Institute Affiliated to AKTU, Lucknow)				
		<b>B.Tech</b>				
		SEM: V - THEORY EXAMINATION (2024- 2025)				
<b></b>	Subject: Design Thinking					
		Hours Max. Marks: 50 structions:				
		y that you have received the question paper with the correct course, code, branch etc.				
		estion paper comprises of three Sections -A, B, & C. It consists of Multiple Choice				
		MCQ's) & Subjective type questions.				
		n marks for each question are indicated on right -hand side of each question.				
		your answers with neat sketches wherever necessary.				
		suitable data if necessary. ly, write the answers in sequential order.				
	-	should be left blank. Any written material after a blank sheet will not be				
		hecked.				
<b>SECT</b>	ION.	<u>-A</u> 15				
1. Atte	empt a	all parts:-				
1-a.	D	Design Thinking is: (CO1, K1)				
	(a)	Thinking about design				
	(b)	Designing ways in which people think				
	(c)	Asking users to solve problems				
	(d)	Defining, framing and solving problems from users' perspectives				
1-b.	A	a good problem statement should thus have the following traits: (CO 2, K2)				
	(a)	Human-centered				
	(b)	Broad enough for creative freedom				
	(c)	Narrow enough to make it manageable				
	(d)	All of the above				
1-c.	T	The customer in the customer journey map is one who: (CO3, K2)				
	(a)	Uses a product/service and may need help				
	(b)	Makes profits for the design thinkers				
	(c)	Is a designer who wants to help with the project				
	(d)	Helps build the prototypes that may be useful later on				
1-d.						
	(a)	Involve clients and customers in meaningful ways				
	(b)	think of unimaginable solutions				
	(c)	make them not just feasible, but also viable				

	(d) All of the above	
1-e.	Goals of usability testing are: (CO5, K1)	1
	(a) Performance	
	(b) Accuracy	
	(c) Recall How much does the person remember afterwards or after period use?	s of non-
	(d) All of above	
2. Atte	empt all parts:-	
2.a.	Define wicked Problems. (CO1, K1)	2
2.b.	Explain overall evaluation of the research design. (CO2, K2)	2
2.c.	Enlist the characteristics of sketches. (CO3, K1)	2
2.d.	Mention the significance of value proposition design. (CO4, K2)	2
2.e.	Define reactive feedback.(CO2, K1)	2
<b>SECT</b>	<u> TION-B</u>	15
3. Ans	swer any three of the following:-	
3-a.	Discuss how innovation and creativity plays a important role for any organiz (CO1, K2)	cation. 5
3-b.	Explain the significance of primary data. What are the limitations of primary Explain in brief the stages in data processing. (CO2, K2)	data? 5
3.c.	Describe Lean Startup Machine Idea Validation Board and Idea Affinity Ma (CO3, K2)	ps. 5
3.d.	Interpret the ways by which prototype can be connected with 3 laws of design thinking. (CO4, K3)	;n 5
3.e.	Explain the concept of simple and systematic random sampling. (CO5, K2)	5
<b>SECT</b>	<u>FION-C</u>	20
4. Ans	swer any one of the following:-	
4-a.	Describe frictional forces. How can we overcome them? (CO1, K2)	4
4-b.	Differentiate between design mindset and traditional mindset (CO1, K3).	۷
5. Ans	swer any one of the following:-	
5-a.	Demonstrate the role of 4 Ws in define phase with illustration. (CO2, K4)	4
5-b.	Explain LDO framework along with its importance to gather right data. (CO	2, K2) 4
6. Ans	swer any <u>one</u> of the following:-	
6-a.	Explain the importance of Inclusive Design with a suitable example. (CO3,	K2) 4
6-b.	Interpret the importance of Random Association Technique in Brainstormin sessions. (CO3, K3)	.g 2
7. Ans	swer any <u>one</u> of the following:-	
7-a.	Develop a plan to create prototype for your oncoming project of Design Thir (CO4, K6)	nking. 4

7-b.	Discuss the check-list for designing a good minimum viable product. (CO4, K2)	
8. Answe	er any <u>one</u> of the following:-	
8-a.	Ctritically evaluate the Vroom Yetton Matrix. How it helps in decision making? (CO5, K5)	4
8-b.	Explain the core elements of usability testing. (CO5, K2)	Δ

