Printe	ed Pa	ge:- Subject Code:- BMICA0204
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NC	OIDA	INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
		(An Autonomous Institute Affiliated to AKTU, Lucknow)
		MCA (Integrated)
		SEM: II - THEORY EXAMINATION (20 20) Subject: Design Thinking-I
Tim	e: 3 F	Hours Max. Marks: 100
		structions:
		y that you have received the question paper with the correct course, code, branch etc.
		stion 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.
		uitable data if necessary.
5. <i>Pre</i>	ferabi	ly, write the answers in sequential order.
		should be left blank. Any written material after a blank sheet will not be
evalu	ated/c	hecked.
SECT	TON.	-A 20
		all parts:-
1-a.	υ ()	esign Thinking typically helps in (CO1, K2)
	(a)	innovation
	(b)	Data analytics Eigeneial planning
	(c)	Financial planning
1.1	(d)	Operational efficiency
1-b.		n expected decline in the prices of consumer goods will: (CO1, K2)
	(a)	decrease aggregate demand
	(b)	increase the quantity of real domestic output demanded
	(c)	increase aggregate demand.
	(d)	decrease the quantity of real domestic output demanded.
1-c.		he "Diverge" Phase in design thinking is related to: (CO2, K2)
	(a)	Analyzing data
	(b)	Narrowing down idea
	(c)	Generating multiple ideas
	(d)	Testing prototyping
1-d.		ouring which step do you explore the ways in which users experience your area of 1 oncern? (CO2, K2)
	(a)	Prototype
	(b)	Ideate

	(c)	Define		
	(d)	Empathise		
1-e.		It is always important toyourself, others and the place where you work. (CO3, K2)		
	(a)	Appearance		
	(b)	Cooperate		
	(c)	Communicate		
	(d)	Respect		
1-f.	Empathy map can be used to: (CO3, K2)		1	
	(a)	Detect the target market		
	(b)	All of the above		
	(c)	Whenever you find a need to immerse yourself in a user's environment		
	(d)	Develop a new product		
1-g.	A	ccording to the text, critical thinking complements: (CO4, K2)	1	
	(a)	Our prejudices		
	(b)	Our emotions		
	(c)	Peer pressure		
	(d)	Our unconscious desires		
1-h.	The statements (reasons) given in support of another statement are called (CC K2)		1	
	(a)	An argument		
	(b)	The conclusion		
	(c)	The premises		
	(d)	The complement		
1-i.	A	A deductively valid argument cannot have (CO5, K2)		
	(a)	True premises and a false conclusion		
	(b)	False premises and a true conclusion		
	(c)	True premises and a true conclusion		
	(d)	False premises and a false conclusion		
1-j.		The best way to learn how to assess long passages containing an argument is to (CO5, K1)		
	(a)	Practice		
	(b)	Look for premises first		
	(c)	Use the five-step method		
	(d)	Look for false premises first		
2. Att	empt	all parts:-		
2.a.		rive two real time examples of power of observation and how it can help in inderstanding the problem. (CO1, K3)	2	

2.b.	Describe the nine feelings in relationship. (CO2, K2)	2
2.c.	Elaborate the role of critical thing in scientific reasoning. Also enlist five components of scientific reasoning. (CO3, K2)	2
2.d.	Write short note on following: (1) Logical fallacy (2) Proposition (CO4, K2)	2
2.e.	Define the four logical connectives in detail. (CO5, K2)	2
SECTI	ON-B	30
3. Ansv	ver any <u>five</u> of the following:-	
3-a.	Discuss the difference between immersion and observation with example (CO1, K2)	6
3-b.	Elaborate Arcturtus IV case study. (CO1, K3)	6
3-c.	Define different perspectives of ethical behaviour. (CO2, K2)	6
3-d.	Describe the brainstorming with its benefits. (CO2, K2)	6
3.e.	Write Short note on Double Diamond Approach. (CO3, K2)	6
3.f.	Distinguish between various types of cognitive biases. (CO4, K2)	6
3.g.	List the five step process of critical thinking. (CO5, K2)	6
SECTI	ON-C	50
4. Ansv	ver any <u>one</u> of the following:-	
4-a.	Describe the key elements of design thinking. Also, explain LDO. (CO1, K2)	10
4-b.	What are five steps of design thinking? Explain role of Define tool in design process.(CO1, K2)	10
5. Ansv	ver any one of the following:-	
5-a.	Elaborate the role of education in human life. (CO2, K2)	10
5-b.	Children tends to learn important values and behaviors from their family by observing them. Explain. (CO2, K3)	10
6. Ansv	ver any one of the following:-	
6-a.	Explain what do you understand by Sketching. How it is different from Prototyping? (CO3, K2)	10
6-b.	What do you understand with Ideation stage of Design Thinking. Explain Brainstorming tool with example. (CO3, K2)	10
7. Ansv	ver any one of the following:-	
7-a.	Describe structure of an argument. Is premises and conclusion both are important in argument? (CO4, K2)	10
7-b.	Define the role of probability and judgment in critical thinking with appropriate example.(CO4, K2)	10
8. Ansv	ver any <u>one</u> of the following:-	
8-a.	Apply the mind mapping technique on water management. (CO5, K3)	10
8-b.	Explain how the questioning techniques builds a deeper understanding. (CO5, K2)	10