Code No.: 15147 S (F) N/O

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

Accredited by NAAC with A++ Grade

B.E. V-Semester Supplementary Examinations, June-2023

Design Thinking (OE-III)

Time: 3 hours

Max. Marks: 60

Note: Answer all questions from Part-A and any FIVE from Part-B

Part-A $(10 \times 2 = 20 \text{ Marks})$

Q. No.		Stem of the question	M	L	CO	D
1.	Write two	o lines expressing your opinion on the picture given below. Why is it a	2	3	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		PAPERLESS A STATE OF THE STATE				
2.	Design thi Phase? W	nking follows a five-stage framework. What comes after the Define hy is it an important phase?	2	1	1	10
3.	Being on the receiving end of empathy is to feel heard. To feel heard is to feel valued. An empathy interview is about active listening and active hearing. Mention 3-4 points to highlight the importance of Empathy Interviews?			1	2	3
4.	Empathy N	Maps generally consist of four quadrants. following responses	2	2	2	3
	Feels	Shops around to compare prices.				
	Thinks	"I want something reliable."				
	Says	Confused: too many contradictory prices				
- 1			- 1			

	The Salience Model stakeholder mapping model uses three parameters to group stakeholders. The parameters are power, urgency, and legitimacy. Match the following:					2	3	2
	1. Power							
	2. Urgency B. the stakeholder's right to be involved. This is also the relationship of the stakeholder to the firm.						100000000000000000000000000000000000000	
	3. Legitimacy	outcor	ne stakeholder's ability to influence the ne of a deliverable, project, or zation.					
6.	narrow. A well-t	framed "I	How Might We" question should not be HMW" question will contain the right ly start brainstorming potential solutions.	so broad or amount of	3	3	2	3
	PROBLEM STAT	their energy d and more						
	Here are examples of HMW questions crafted from that problem:							
	A: How might we create ways to rest and feel less stressed? Create two on your own for the given problem statement							
7.	There are several	ideation 1	techniques that you can use to help your tenon ones include:	am come up	2	2	.4	2
	Brainstorming		creating visual storylines of how users mabout solving the problem.	ight go				and the second s
	Mind mapping		coming up with the worst possible is remove creative blocks.	deas to				
	Storyboarding		verbally sharing ideas within the group.		A Appropriate to the second se	and the second		
	Worst possible	idea-	visually ideating by starting with a keyw is related to the problem and then writin ideas associated with it around it.	ord that g all the	And the second s			

8.	How does this tool help us in making informed decisions? Explain two benefits? What is it called?	2	. 2	4	
	LOW HIGH LOW EFFORT BY ORGANIZATION		AT THE PARTY OF TH		
9.	Why is testing important? Mention two key points?	2	2	5	-
10.	What are 5 good survey questions?	2	3	5	5
11. a)	Part-B ($5 \times 8 = 40 \text{ Marks}$)				-
	Studies show that only 20% of the student population can identify a singular passion. The other 80% of the population is either passionate about many different things, or there's no one thing that rises to the level of "that's what I want to do for the rest of my life". For that 80%, passion isn't something that they have or tind, but something that they work into. Can we apply design thinking to the 'wicked problem" of designing your job, your career, and even your life? Write your opinion in two or three sentences.	3	3	1	1(
b)	What are the five phases of design thinking and what are the deliverables in each phase?	5	2	100	10
2. a)	Look at the following persona and create one for your problem statement.	4	4	2	2
	Kayla the Millennial Name: Kayla Age: 23 Gender: Female Travel Style: Adventure Summary: Kayla, a Boulder, CO resident, is 23. She was just hired as a customer service representative after graduating from the University of Colorado last semester. She makes \$45,000 annually, much of which she saves for travel trips. Kayla is a thrill seeker and is a ways looking for her				

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b)	compares	4	4	2	2
	relies on friends for advice clicks through websites always searching for a new/better app DO FEEL Curious doubt not sure who to trust trust clicks through websites pays for applications pays for applications pays for applications Excited watches blogs about sirrier sirrier product in sirrier reviews on products tried and experienced competitors after technology Think Excited THINK USER what am best for Hooking me? for? from the competitor of the competi				
	Create an empathy map like the one done above for one of the personas that you and your team have created.				The second secon
13. a)	Ir novation, at it's core, is about solving problems. So make sure you get the problems right.	3	5	3	2
	The better you define the problem and the better you write the questions, the better				
	the ideas that they prompt.				
	Problem: Customers are struggling as first time users. HMW: How might we improve the onboarding experience to be simple and failure proof?				
	Create three such statements for the Problem your team and you have identified?				
b)	Let's say you are a small, family-owned restaurant in Chennai that wants to attract more business from tourists. Here's a possible customer journey map for your little restaurant called Gossip Bistro.	5	6	3	2
	Persona - Surabhi Sehgal			And the state of t	The state of the s
	A 3e - 32	many many transcription of the party of the			
	Lives in - Jakarta	and in constant of the depth of the constant			
	Income - 25 lacs (In Indian Rupees)	And all the second seco			
	Occupation - Senior Manager in an MNC				
	Story - Surabhi is a foodie and wants to explore new cuisines. She and her family have long planned this trip to Chennai to visit the land of temples. This is her first	The state of the s			

	already and wants to Indonesia. She is willi	vedding and she and Ashish are super excited. She wants an experience. She has spent a great deal of money on this trip avoid spending on things she doesn't need/could get in ng to pay for a unique experience, though. She also secretly eing able to brag about it once she comes back home.				
	Likes - Good food and	wine.				
	Leisure - Cooking, writer reads print newspapers	iting blogs, hanging out with friends and family. She also and is relatively comfortable using Technology.	Complete Commission of the Com		A PARTY COMMUNICATION OF THE PARTY OF THE PA	
	recommending	ourney map for Surabhi, for all the stages Awareness, eservation, dining in, writing a review, coming back /	The state of the s			
14. a	Match the following ide	eation techniques;	2	2	4	3
	1. Brainstorming	A. This is like brainwriting, but members walk about the room, adding to others' ideas.				
	2. Braindumping	B. This is like brainstorming, but everyone writes down and passes ideas for others to add to before discussing these.				
	3. Brainwriting	C. This is like brainstorming, but done individually.				
	4. Brainwalking	D. You build good ideas from each other's wild ideas.				
b)	The scamper method is a trigger creative thinking problem-solving technique	and it was first introduced by Bob Eberle as a simple are. Please read the Problem Statement and the approach	6	5	4	3
	Problem: Lack of audience	ce on Website				
	Context: Using LinkedIn	to drive audience towards website				
The second secon	• Substitute: Here we need as Facebook or Instagra channels.	I to ask if we can substitute LinkedIn with another such m and thus experiment with different social media	Pr. 1118944 Malabertaning Tray Tray In 1111 In Transport Inc.	The second secon		
	· Combine: Here we have t	he option to combine the content published on LinkedIn on another social media channel such as Facebook.				

	Adapt: Here we need to consider if there is another side to our problem. For example, our content might not be interesting or we might not be using the platform to its full potential. Because we are presenting LinkedIn as our main social media channel and whatever is published there constitutes our brand appearance. Thus, these factors can encourage or discourage our audience to visit our website. Modify: We might need to change our approach towards LinkedIn and the content published on it. Put to another use: We can consider developing LinkedIn as a learning platform for our audience rather than just a channel to promote our website. Eliminate: We might need to eliminate linking, posting a certain type of content to stay focused on our theme. Reverse: We should consider reversing our approach and use our website as the main media channel thus curating specific material for that approach. Thus, by using this technique one will be able to experiment and consider several alternative ideas to solve the problem at hand just like we did in this example!				
15. a)	During those priceless, time-sensitive moments that deserve to be captured on camera so that they can be cherished forever more—like your child walking for the first time, or spotting your favourite celebrity in your local coffee shop—there's nothing worse than being confronted with this message: Cannot Take Photo There is not enough available storage to take a photo. You can manage your storage in Settings. Done Settings	2	5	5	5
b)	What would you do if you saw this in the user acceptance testing phase Create a prototype for your product/service. Use any one of the prototyping	6	5	5	5
	methods that you learnt.		-	-	10
16. a)	How can you use Design Thinking to design your Career? Write your thoughts?	4	3	1	10
b)	If the goal of empathy mapping is to empathize (and it is), then the goals you should really consider are those of your audience: What about your content will appeal to users? What is it about your product that is uniquely suited to accomplish their goals? What do they care about? Who are they? Give your answers to these questions keeping your problem statement in mind.	4	2	2	3

17.	Answer any two of the following:				
a)	Based on the given user perception/ feedback create a design brief using the following template.	4	4	3	
	User perception/feedback				
	 Shyam often forgets to complete his assignments and is in need of an efficient way to track his to-do list 			The second secon	
	2. Shyam also needs a tool/planner to help him perform to his true potential in his exams				
1		1			1
	Problem statement				
	Problem statement Design goal/objective	And desired to the second of t		The first special spec	
b),		4	6	4	3

CO; Course Outcome; PO: Programme Outcome

i) Bloome Toyona I	
ii) Blooms Taxonomy Level – 1 Blooms Taxonomy Level – 2	20%
iii) Blooms Taxonomy Level – 3	40%
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