


1MS22JS138

CIE - 2		
Ramaiah Institute of Technology (Autonomous Institute, Affiliated to VTU)		
Programme: B.E		
Sem: 2 nd	Course: Design thinking	Course Code: AECC27
CIE: Test 2	Term: 10.06.2023 - 09.09.2023	Sec: A,B,C,D,E,F,G,H,I,J,K,L
Max Marks: 30	Duration: 1Hr	Time: 10.00 to 11.00 AM
Credit: 2:0:0	Test Portions: LP-10 to 20	Date: 06.09.2023

Instructions to students: Answer any two full questions out of the three given questions.

Sl#	Question	Marks	Bloom's Level	COs
1a	Problem statement: People of rural Karnataka are unable to fill the application forms of Government welfare schemes due to language and digital illiteracy. Explain how you and your team will work on this problem statement during ideation phase – building on ideas and getting unstuck, and the criteria you will consider for convergent thinking.	6	L3	CO3
1b	Explain the different aspects of maturity and decline phase in product lifecycle.	6	L1	CO4
1c	How does user-testing process that adds to the expenses, result in the company saving money?	3	L2	CO4
2a	What are the various aspects of prototyping rules, materials, and mentorship that you will consider for prototyping of a robotic wheelchair.	6	L3	CO3
2b	Give the functional analysis of various parts of this roller skates, by naming the part, its function, the role of each function to the part, and to the assembled product in a tabular form. 	6	L3	CO4
2c	Explain briefly: (i) A/B testing, (ii) Tree testing, (iii) Beta testing.	3	L1	CO4
3a	Explain about convergent and divergent thinking giving appropriate examples.	6	L2	CO3
3b	What is the mind-set with which you will go for the testing? What are the aspects you will show in feedback capture grid? Give an example considering that you've tested a new air pod design with an end user.	6	L3	CO4
3c	Define value engineering, and give the equation for the same.	3	L1	CO4