

SY

MGM University
Jawaharlal Nehru Engineering College
Department of Mechanical Engineering

CA-I

Subject: Product Design - I

Class: SY (Mechanical/Mechatronics/Robotics)

Continuous Assessment - I - Activity Sheet

Task	Details of Activity	CO	BT Level
01	Understanding the Opportunities of Product in respective Domain (conduct " <u>Brainstorming</u> " amongst group members/target audience and list down at-least 06 opportunities)	CO2	BL 2
02	Define the Problem Statement	CO2	BL 2
03	Conduct " <u>Brainwriting</u> " amongst the group to generate ideas for your proposed product using 6-3-5 approach	CO2	BL 3
04	Draw a " <u>Mindmap</u> " for your proposed Product	CO2	BL 3

15 MAR 2024/sy/mech/CA-I/P2/23-24

Subject: Product Design - I Class: SY (Mechanical/Mechatronics/Robotics)
Continuous Assessment - I - Activity Sheet

Group Number: 02
Product Domain Assigned: Toys
Group Information:

Sr. No.	Name of Student	Branch	Roll No.	Sign
1	Vishal Pawar	Mechatronics	202301126706	Vishal
2	Adesh Wagh	Mechatronics	202301126707	Adesh
3	Sayali ghodke	Mechatronics	202301126708	Sayali
4	Mahesh kather	Mechatronics	202301126709	Mahesh
5	Kishor badak	Mechatronics	202301126710	Kishor
6	Pranav Shivnikar	Mechanical	202201107001	Pranav

Stage 1: Understanding the Opportunities of Product in respective Domain (conduct "Brainstorming" amongst group members/target audience and list down at-least 06 opportunities)

- 1- Multifunctional
- 2- Adaptability for different age groups
- 3- Parent - child interaction
- 4- Educational values
- 5- Gender - Neutral design
- 6- Battery power is not essential

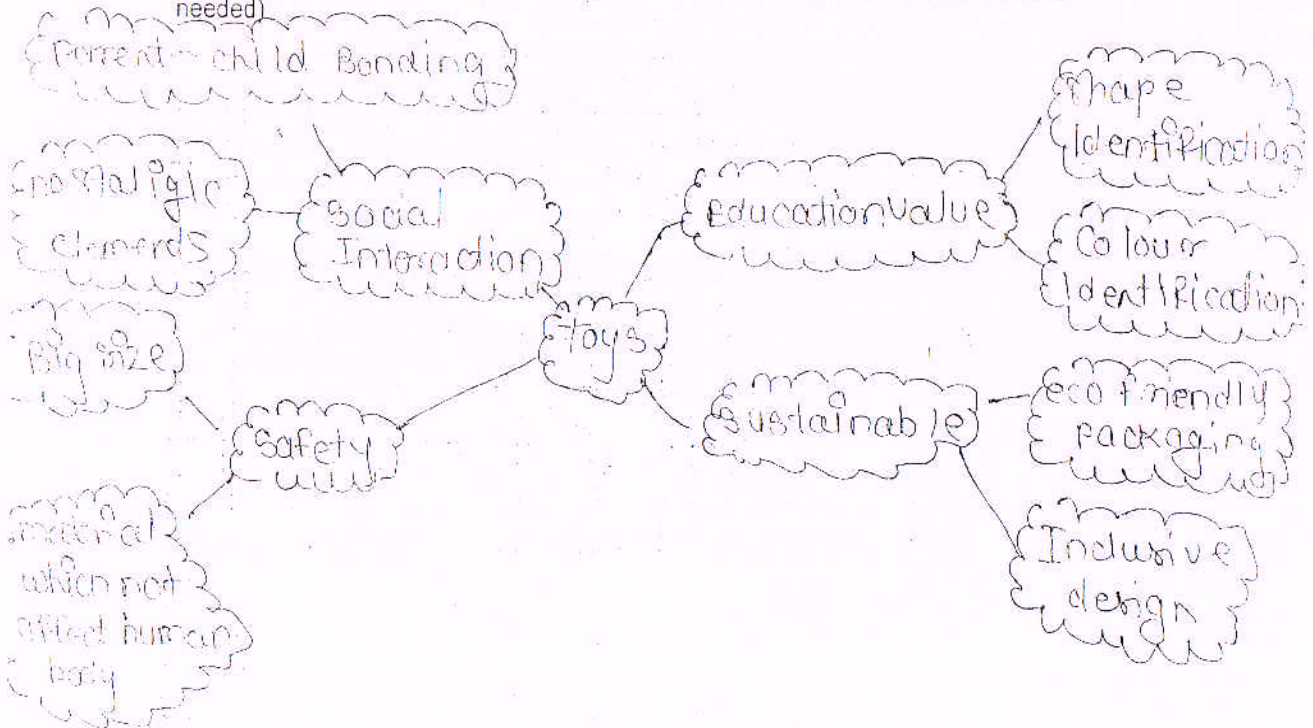
Stage 2: Defining the Problem

All game that required parent children interaction

Stage 3: Conduct "Brainwriting" amongst the group to generate ideas for your proposed product using 6-3-5 approach

Student 1 - Ideas	Student 2 - Ideas	Student 3 - Ideas
1. Customized Action Figures	1. Phone holder game	1. stacking toy
2. Storybook characters	2. Counting floating blocks	2. memory matching game
3.	3. Educational models	3. Time Telling clock
Student 4 - Ideas	Student 5 - Ideas	Student 6 - Ideas
1. Spinner	1. Shape board	1. mousebitten
2. Spinning top kit	2. magnetic alphabet letters	2. Story cubes
3. Interaction Board game	3. musical instrument set	3. Puzzle cubes

Stage 4: Draw a "Mindmap" for your proposed Product (attach separate sheet if needed)



54

CA-I

MGM UNIVERSITY
J.N.E.C.CHHA.SAMBHAJINAGAR
DEPARTMENT OF MECHANICAL ENGINEERING
S.Y(Robotics and Artificial Intelligence) / *mechatronics*
Year: 2023-24 (Semester -IV)

Course Code: 22URA404D

Max Marks: 10

Note:

Time: 45 Minutes

Microprocessors and Interfacing

TEST: CA I

Date: 02.02.2024

- (i) Solve any two questions.
(ii) Each question carries equal marks.
(iii) Assume suitable additional data if necessary.

Q.No.	Questions	Level	CO
1	Compare RISC and CISC Processors.	LI	1
2	What is 8085 programming model? Explain in detail.	LI	1
3	What are different addressing modes available in 8085? Explain with the help of instructions under each mode.	LI	1

15 MAR 2024 / sy / mech / CA-I / p2 / 23-24