

PART B

# Unit - 1

**HOMEWORK**

## **ACTIVITY 1: The Switch Riddle**

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Imagine you are in a room which has 3 electric switches. There is another room in which a bulb is hanging with ceiling at the height of 7 feet from the ground. That room has some furniture such as tables, chairs, stools etc. The condition is that once you leave your room, you cannot come back to it. Out of the 3 switches in your room, one switch is for the light bulb in the other room. You have to find that switch.

- **Write down the statement that clearly defines the exact problem.**
- **What is the solution?**
- **Discuss and describe, how decision making helped you solve this riddle.**

*Complete this activity in a A4 sheet and submit it to your teacher – Mention Your Name, Roll and Section*

## **ACTIVITY 2: Farmer's Dilemma**

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A farmer has to cross a river by boat. He has a boat, a lion, a goat and a bundle of grass. Boat is big enough just to carry 2 passengers or objects at time. In farmer's absence, the perils are – *the goat may eat grass and the lion may eat goat*. But the farmer managed to cross the river with all of them by boat. How did he do it? Also, discuss and describe, how decision making helped farmer in solving the problem.

- **Write down the statement that clearly defines the exact problem.**
- **What is the solution?**
- **Discuss and describe, how decision making helped you solve this riddle.**

*Complete this activity in a A4 sheet and submit it to your teacher – Mention Your Name, Roll and Section*

Take close note of the instructions:

1. The assignment needs to be finished on an A4 sheet or a notebook.
2. The top of the sheet should have your name, section, and roll number inscribed on it.
3. The assignment date ought to be noted at the top left corner of the page.
4. All questions should be written in bold, and if available, you can highlight or underline important points using sketch pens.
5. The assignment must be turned in before **June 5, 2024**.

# WORKOUT TIME

## Homework

### *A. Very Short answer type questions.*

1. Define Intelligence
2. How decision making helps us? Explain with an example.
3. List any 5 types of Intelligence
4. Lalit is very fast at calculations and takes quick decisions. Which type of intelligence does he have?
5. Meera is a good dancer while her sister Neera plays flute. Which type of intelligence do they have?
6. Raju likes to make friends. He has a large friend circle. Name 2 skills he has which help him in making friends.
7. Anu seems to identify each and every tree in her locality. Which intelligence does she possess?
8. Define the term “Artificial Intelligence”
9. How is intelligence related to learning?
10. Does your Washing Machine exhibit artificial intelligence? Why / Why not?

# WORKOUT TIME

## Homework

### *B. Short answer type questions.*

1. What do you mean by Artificial Intelligence?
2. Explain the term “Intelligence” very briefly.
3. List any 5 types of intelligence and explain any two of them briefly.
4. Briefly explain how we humans gain intelligence?
5. Is a desktop computer artificially intelligent machine? Why / Why not?
6. What is the difference between interpersonal and intrapersonal intelligence?



### *C. Long answer type questions.*

1. What is artificial intelligence? How is it different from human intelligence?
2. How does intelligence and information help in making decisions? Explain with 2 distinct examples.
3. Write a brief note on different types of intelligence.
4. Explain briefly how humans learn and how machines can be made to learn. Are the processes basically the same?

# WORKOUT TIME

## Homework

### *D. Select the correct Answer.*

1. To make decisions, \_\_\_\_\_ is necessary.
  - a. Information
  - b. Intelligence
  - c. Both a) and b)
  - d. Programming
2. To be able to learn different languages, \_\_\_\_\_ is required.
  - a. Spatial visual
  - b. Kinaesthetic
  - c. Linguistic
  - d. Naturalist
3. What is true about Kinaesthetic intelligence?
  - a. Ability to dance skilfully
  - b. Ability to compose music
  - c. Ability to learn new languages
  - d. All of these
4. Sam grew up to become a talented environmental scientist. Which intelligence did he possess?
  - a. Spatial Visual
  - b. Existential
  - c. Both a) and b)
  - d. None of these
5. An AI-enabled machine is made to learn by the help of \_\_\_\_\_.
  - a. Training data
  - b. Logic
  - c. Practice
  - d. Testing data
6. The desired intelligence of an AI-enabled machine is evaluated by the help of \_\_\_\_\_.
  - a. Training data
  - b. Logic
  - c. Practice
  - d. Testing data
7. Which of these is an example of AI?
  - a. Smart TV
  - b. Facial recognition
  - c. Video call
  - d. None of these