ICI School, Bhosari

PERIODIC TEST :- 2 (2025-26)

Subject :- Ai & Robotics

Name:- _____ Roll.No :-

STD:-VI Div:- Marks Obtained : -

Date :- Total Marks :-

_____

Marks Obtained :	Supervisor Sign with date :
Total Marks: 25	Subject Teacher's Sign :

Q1. Tick the Correct Answer(5 Marks)

1. What is the name of the robot's "brain"?
   - a) Qbit
   - b) Qbrick
   - c) Motor
2. Which sensor is used in the "Basketball Counter" to see if a ball passes?
   - a) LDR Sensor
   - b) IR Sensor
   - c) Buzzer
3. What is the main job of a DC Motor?
   - a) To make sounds
   - b) To see the world
   - c) To make the robot move
4. The "if-then" block helps the robot to:
   - a) Move faster
   - b)Make decisions
   - c)Change colors
5. What number does the score change to when you press the RESET button?
   - a) 1
   - b) 255
   - c) 0

Q2. Fill in the Blanks. (Buzzer,count,Qbits,Light Avoider,255) (5 Marks)

1. The robot's body can be built using building blocks called _____.
2. A _____ is a part that can make a sound, like a beep.
3. The variable used to keep track of the basketball score is called _____.
4. The _____robot uses a sensor to avoid bright light.
5. The fastest speed for a motor is usually the number _____.

Q3. True or False (5 Marks)

1. Sensors are like the robot's hands and feet._____
2. An LDR Sensor can tell if something is in front of it._____
3. An RGB LED is a special light that can only glow in red._____
4. To make the Light Avoider robot move, both of its motors need to be told to rotate._____
5. We add 1 to the count every time a basket is made._

Q4.Match the Following (5 Marks)

Column A	Column B
1. Qbrick	a. Stores the basketball score
2. IR Sensor	b.Makes the robot's wheels spin
3. Motor	c. The robot's "brain"
4. Buzzer	d. Detects if a ball is present
5. count Variable	e. Makes a beeping sound

Q5. Answer in oneWord. (5 Marks)

(Invisible,Coding/Programming,LED/RGBLED,Diretion,Sensors)

1. What do we call the robot's "eyes and ears" that help it sense the world?

   Ans:-_____

2. What kind of light does an IR sensor use that we cannot see?

   Ans:-_____

3. What do we use to give instructions to the robot?

   Ans:-_____

4. What part allows a robot to show many different colors?

   Ans:-_____

5. What do we change to make a robot go forward or backward?

   Ans:-_____