

ICI School, Bhosari
PERIODIC TEST :- 2 (2025-26)
Subject :- Ai & Robotics

Name:- _____
STD:- IV Div:- ____
Date:- _____
Subject:- Ai & Robotics

Roll. No:- _____
Marks Obtained:- ____
Total Marks:- 25

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

Q1. Tick the Correct Answer (5 Marks)

1. What is the “brain” of the robot car?
DC Motor
LED
Qbrick
2. Which part makes the robot’s wheels spin?
LED
DC Motor
LDR Sensor
3. What does the LDR sensor measure?
Sound
Light
Speed
4. What speed makes the motor stop completely?
255
0
100
5. LEDs are used on the RC car to act as:
Wheels
The engine
Headlights

Q2. Fill in the Blanks (5 Marks)

(forward , Direct Current , 255 , dark , app)

1. To move the car “ _____”, both motors must spin in the same direction.
2. DC is short form of “ _____”.
3. The highest speed for the DC motor is “ _____”.
4. In the automatic streetlight project, the light turns on when it get’s “ _____”.
5. You use an “ _____” on a phone to control the RC car.

Q3. True or False (5 Marks)

1. The Qbrick is the robot’s eye. _____
2. An LED is a small part that makes a sound. _____
3. Pressing the “Backward” button makes the car move backward. _____
4. A sensor helps the robot know about the world around it. _____
5. If a motor’s speed is 200 it is moving. _____

Q4. Match the Following (5 Marks)

- | | |
|------------------|-------------------------|
| 1.DC Motor | ▪ A small light |
| 2.LED | ▪ Senses light |
| 3.QBrick | ▪ Makes wheels spin |
| 4.LDR | ▪ Moves the car forward |
| 5.Forward Button | ▪ Robot’s brain |

Q5. Answer in one word (5 Marks)

(LED, Qbrick, Light, Motor, Button)

1. What part is used as the car’s headlights? _____
2. What do you press on the app to make the car move? _____
3. What is the name of the robot’s brain ? _____
4. What part makes the car move? _____
5. What does the LDR sense? _____

”AI is one of the most profound things we’re working on as humanity. It’s more profound than fire or electricity” -- Sundar Pichai, CEO of Google and Alphabet.