ICI School, Bhosari

PERIODIC TEST :- 2 (2025-26)

Subject :- Ai & Robotics

Name	e :		Roll.no :		
Std:	· V Div :		Marks Obtained :-		
Date			Total Marks :- 25		
Subje	ect :- AI & Robotics				
		I			
	Marks Obtained:	Supervisor Sign with date:			
	Total Marks: 25	Subject Teacher's Sign:			
01. Ti	ck the Correct Answer (5 Marks)				
	,				
1.	A DC Motor is an example of a	n:			
	☐ Sensor				
	☐ Actuator				
2.	□ MOtherboard				
	What happens to the resistance of an LDR sensor when light intensity increases?				
	☐ It increases				
	☐ It decreases				
	☐ It stays the same				
3.	According to the logic in the guide, what event is used to start the motor when a button is pressed?				
	☐ Button.Clicked				
	☐ Button.TouchUp				
	☐ Button.TouchDOwn				
4.	If the left wheel rotates anti-clockwise and the right wheel rotates clockwise at same speed, which				
	direction will the car move?				
	☐ Forward				
	☐ Backward				
	☐ Left				
5.	The if-then-else block in programming is used for:				
	☐ Repeating an action				
	☐ Making a decision				
	☐ Storing a number				

Q2. Fill in the Blanks (5 Marks)

	(Light Emitting Diode, threshold, true &	false, Sensor, 0 to 255)	
1. 2. 3. 4. 5.	In the code, the direction of a motor is set by	g when to turn on a streelight, is called a a boolean value, such as or like light is called a	value.
Q3. Ti	rue or False (5 marks)		
2.3.4.	To make a sharp let turn, both motors must sp	ease a button, causing the motors to stop oin forward, but the left one spins slower ode when the checkbox is ticked or unticked	
Q4. M	latch the following (5 Marks)		
	1.DC Motor 2.LDR 3.if-then-else 4.true / false 5.Threshold	Sensor Boolean Value Actuator A set comparison point Conditional Logic	
Q5. A	nswer in one word (5 Marks)		
(Bool	ean , Actuator, TouchUp, Conditional, if, R	esistor)	
1. 2. 3. 4. 5.	A component that performs a physical action, A value that can only be true or false. The event that occurs when a user lets go of a What does the 'R' in LDR stand for? What kind of block is used to check if the hea	button.	

[&]quot;Machines may be made of steel and silicon, but the soul of robotics is in the creativity of its creators." — *Hiroshi Ishiguro*