NAME :-_____   Roll.No :-

STD :- III Div :-   Marks Obtained : -

Date :-   Total Marks :-

_____

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

Q1. Tick the Correct Answer

1. Which component detects an obstacle without touching it?

    - ☐ DC motor
    - ☐ IR Sensor
    - ☐ LED

2. What kind of motor is used to spin the wheels of the RC car?
    - ☐ Servo Motor
    - ☐ Pump Motor
    - ☐ Dc Motor

3. What kind of motor is used to push water in the Smart Tap?
    - ☐ DC Motor
    - ☐ Pump Motor
    - ☐ Wheel Motor

4. To make the RC car turn right, the left wheel turns clockwise and the right wheels turns:
    - ☐ Clockwise
    - ☐ Anti-clockwise
    - ☐ Off

5. The motherboard has special sockets to connect components. These are called:
    - ☐ Holes
    - ☐ Ports
    - ☐ Plugs

Q2. Fill in the Blanks(**Light Emitting Diode,Infrared,actuators,clockwise,Infrared**)

1. IR stands for_____
2. LED stands for_____
3. An IR Sensor has a transmitter and a _____to work
4. Parts that perform actions, like motors, are called _____
5. To go forward,both the left and right motors must rotate in the _____direction

Q3. True or False

1. The IR sensor in the smart tao detects the presence of a hand._____
2. A DC motor and Pump Motor are used for the exact same purpose. _____
3. The Qbrick is another name for the Motherboard. _____
4. To make the car turn left, both motors must stop working _____
5. The transmitter in an IR sensor sends out invisible IR rays._____

Q4. Match the Following

a.Qbrick   DC Motor

b.Senses Obstacles   Motherboard

c.Spins Wheels   LED

d.Moves Water   IR Sensor

e.Gives Light   Pump Motor

Q5.Answer in One Word.

(**Reciever, RJ, Qbits, True/ON, Transmitter**)

1. What part of the IR sensor sends out a signal?

   Ans :-_____

2. What part of the IR sensor catches the reflected signal?

   Ans :-_____

3. What type of cable connects the sensor to the motherboard?
   Ans :-_____

4. What is the name for robot's building blocks?

   Ans :-_____

5. What state is the tap in when the IR sensor detects a hand?
   Ans :-_____