



# Delhi Public School, Howrah

Final Examination (2024 – 2025)

Class-VII

Care must be taken not to write anything on the question paper. All the questions must be attempted in the correct sequence.

Subject: - Computer Education – Theory (Answer Key)

Time: - 2 Hours

F.M. 50

### General Instructions:

1. This Question paper contains 10 questions with sub-parts.
2. All the questions are compulsory. Read the questions carefully.





### 1. Fill in the blanks:

(0.5X6=3)

- a. A \_\_\_\_\_ control limits the web page visitor to only one choice from a list of choices.
- b. A \_\_\_\_\_ is a program that allows a user to enter, change, save and print text.
- c. A \_\_\_\_\_ statement contains one or more statements and controls their execution in Python.
- d. A fruit picking robot, named as \_\_\_\_\_ developed by RobotUnion to pick ripe pepper in greenhouse.
- e. The da Vinci, also known as wonderbot, is a surgical robot developed by \_\_\_\_\_.
- f. Under sustainable development, goal 10 is to reduce \_\_\_\_\_ among countries.

### 2. Match the following:

(0.5X4=2)

	Column A	Column B
a.		i. Goal 5
b.		ii. Goal 9
c.		iii. Goal 1
d.		iv. Goal 2
		v. Goal 7
		vi. Goal 6

**3. Check the following code written in JavaScript. Identify the errors and rewrite it.**

**(0.5 x 8 = 4)**

```
<html>
</head>
  <script type="text/css">
    function display()
    {
      prompt("Welcome to JavaScript!");
    }
  </script>
</head>
<body>
  <from>
    <input="button" value="Click me!" onclick="displaymessage()" >
  </from>
</body>
</html>
```

**4. State whether the statements are True or False and rewrite the false statement(s) correctly:**

**(1X5=5)**

- a. KEMPA is a humanoid robot of HDFC bank which helps branch staff in servicing customers.
- b. Wonderbots are designed to carry out many agricultural activities such as planting, harvesting, crop monitoring and precise spraying.
- c. Backward function is used to move the turtle in opposite direction with given distance.
- d. Nested if is the first decision-making statement in Python.
- e. Functions can be defined both in the <head> and in the <body> section of the JavaScript document.

**5. Answer the following questions in one or two word(s):**

**(1 x 4 = 4)**

- (i) In JavaScript, this box is often used if you want to make sure information comes through user or display messages.
- (ii) In JavaScript, this box is often used if the user wants to input a value before entering a page.
- (iii) In JavaScript, this box is often used if you want the user to accept something.
- (iv) In JavaScript, it is the process of communicating with the outside world, i.e. to take the value from the user and display it on the screen.

**6. Write down the HTML syntax for the following:**

**(2x2=4)**

- a. To create a password box to enter credit card number with size = 25 and maximum length = 30
- b. To create a text area that allows users to enter several lines of text with the specification rows=5 and columns=6

**7. Identify the types of robots and define them:**

**(2x3=6)**

a.



b.



c.



**8. Answer the following questions:**

**(2 x 6 = 12)**

- a. What are the common attributes supported by both <audio> and <video> tags in HTML? Mention any four of them.
- b. Why comments are used in JavaScript? What is the syntax for different types of comments in JavaScript?
- c. Ravi is working on a school project where he is using logical operators in a program. He needs to evaluate conditions based on certain criteria. He is confused about how to use the AND, OR, and NOT operators correctly in his code. Help him by providing correct explanation for these operators along with example.
- d. Explain the difference between the forward() and backward() methods in Turtle graphics. How do these methods move the turtle on the screen? Provide examples to illustrate their functionality.

e. **Scenario:** A software developer named Priya is working on a program that tracks the age of users. She uses variables to store the user's information and wants to compare ages based on certain conditions.

In her program, Priya writes the following code:

```
age = 25           # Assigns 25 to the variable age
if age == 25:     # Checks if age is equal to 25
    print("The user is 25 years old.")
```

However, Priya is confused about the difference between the = operator and the == operator. She tries to use both operators in different parts of her code but gets different results, leading to unexpected behavior.

**Questions:**

- 1. What does the = operator do in the code above?
- 2. What is the role of the == operator in the code?

f. **Scenario:** A company named RoboTech is working on developing robotic systems to improve efficiency in manufacturing processes. They are researching various aspects of robotics, including its definition, objectives, and impact on different industries. The team wants to ensure that they understand the core concepts of robotics before moving forward with their design and implementation.

**Questions:**

- 1. What is robotics?
- 2. What are the main goals of robotics?

**9. Draw flowcharts for the given syntax:**

**(3 x 2 = 6)**

(i) **if condition-1:**  
    Body of if  
**elif condition-2:**  
    Body of elif  
**else:**  
    Body of else

(ii) **if condition-1:**  
    **if condition-2:**  
        statement-1  
    **else:**  
        statement-2  
**else:**  
    statement-3  
statement n

**10. Write a python program to draw the following shape using turtle module:**

**(4)**

