



# BK BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS  
SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL  
**POST MID TERM EXAM (2024-25)**  
**ARTIFICIAL INTELLIGENCE**



**Class: VIII**

**Date: 04-01-2025**

**Adm No: .....**

**Duration: 1 hr.**

**Max Marks: 25**

**Roll No. :**

## MARKING SCHEME

### I. Multiple Choice Questions :

(12 X 1 = 12)

- (1) How do you combine two strings in Python ?  
(a) **string1 + string2** (b) string1.combine(string2)  
(c) string1.concatenate(string2) (d) string1\*string2
- (2) people = ["John", "Rob", "Bob"]  
print(people[1])  
What would this result be ?  
(a) John (b) **Rob** (c) Bob (d) None
- (3) Each item in a list has an "address" or index. The first index in a Python list is what ?  
(a) **0** (b) 1 (c) a (d) A
- (4) What output will this code produce ?  
city = "Exeter"  
x = len(city)  
print(x)  
(a) Exeter. (b) 4 (c) **6** (d) city
- (5) What is printed by the following statement ?  
print("A" in "APCSP")  
(a) **True** (b) False (c) Error (d) None of these
- (6) Which one of the following has the highest precedence in the expression ?  
(a) Exponential (b) Addition (c) Multiplication (d) **Parentheses**
- (7) Which HTML tag is used to embed an video file into a web page ?  
(a) <audio> (b) **<video>** (c) <img> (d) <source>
- (8) Which attribute specifies the source of the video file ?  
(a) **src** (b) alt (c) width (d) height
- (9) Which is the main attribute of <IMG> tag, without which we cannot insert image in our webpage ?  
(a) **src** (b) href (c) alt (d) height
- (10) <A> tag stands for ?  
(a) Animation (b) Absolute (c) **Anchor** (d) Attachment
- (11) Which one is not an attribute of <video> tag ?  
(a) src (b) controls (c) **scr** (d) height
- (12) Which colour is typically used to indicate an unvisited hyperlink in HTML?  
(a) **Blue** (b) Red (c) Green (d) Purple

### II. Short Answer Type Questions :

(4 X 2 = 8)

- (1) What is a string ? What is slicing of string ? Explain with example.

Ans. :

In Python, a consecutive sequence of characters, which are enclosed or surrounded by single ( ' ') or double ( " ") quotes, is known as a string.

Example : 'Welcome', "India"

We can use a range of items in a string by using the slicing operator (colon). Slicing as the meaning goes is basically chopping or retrieving a set of values from a particular sequence.

Format : str[start:end:step\_size]

Example :

```
py_str = "Programming"
```

```
print(py_str[3])
```

Output : g

(2) Write Python code to calculate and display the selling price of an item by inputting the cost price and profit.

Ans. :

```
cp = int(input("Cost price of an item :"));
```

```
profit = int(input("Profit :"));
```

```
sp = cp + profit;
```

```
print("Selling Price of an item :", sp);
```

(3) Explain the <img> tag and the attributes **src** and **alt** of HTML. Give suitable example of it.

Ans. :

The <img> tag in HTML is used to embed images in a web page. It does not have a closing tag and is a self-closing tag, which means it doesn't need an end tag. The image source and additional details like alternate text are specified using attributes inside the <img> tag.

1. **src (Source):**

- The src attribute specifies the path to the image file that you want to display on the web page.
- Example: src="image.jpg", src=https://example.com/images/picture.jpg

2. **alt (Alternate Text):**

- The alt attribute provides a text description of the image.
- Example: alt="A beautiful sunset over the mountains"

```
<html >
```

```
<head>
```

```
<title>Image Example</title>
```

```
</head>
```

```
<body>
```

```
<h1>Welcome to My Website</h1>
```

```
<p>Here is a picture of a sunset:</p>
```

```

```

```
<p>Enjoy the view!</p>
```

```
</body>
```

```
</html>
```

(4) Write the complete HTML code to create a link to "https://www.example.com" with the text "Visit Example".

Ans. :

```
<HTML>
<HEAD>
<TITLE> SCHOOL WEBSITE</TITLE>
</HEAD>
<BODY>
<a href = https://www.example.com/> Visit Example </a>
</BODY>
</HTML>
```

### III. Long Answer Type Questions :

(2 X 2.5 = 5)

(1) Explain the following attributes of the <A> tag in HTML.

- (a) HREF                                      (b) Target                                      (c) Name

Ans. :

(a) **href** (Hypertext Reference):

The href attribute is the most important attribute of the <a> tag. It specifies the destination URL or the location where the link will take the user when clicked.

```
<a href="https://www.example.com">Visit Example Website</a>
```

(b) **target:**

The target attribute defines how the linked document will open. It specifies where to display the linked page or document when the user clicks the link.

```
<a href="https://www.example.com" target="_blank">Open Example Website in a New Tab</a>
```

(c) **name:**

The name attribute was traditionally used to define a name for an anchor (or a bookmark) within the page. The value of name is used to create a link to a specific part of the page.

```
<a name="section1"></a>
```

(2) How many types of indexing are available in Python Strings ? Explain with example.

Ans. :

There are two ways we can index string or any sequence in Python :

- (i) Index with positive integers : Index from left starting with 0 and 0 being the index of the first item in the string or sequence
- (ii) Index with negative integers : Index from the right starting with -1 and -1 being the index of the last item in the string or sequence

Example :

```
fruit = "banana"
letter = fruit[0]
print(letter)
output : b
```

\*\*\*\*\* ALL THE BEST \*\*\*\*\*