



BK BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL
PERIODIC TEST II (2024-25)
ARTIFICIAL INTELLIGENCE



Class: VIII
Date: 04-12-2024
Adm No:

Duration: 1 hr.
Max Marks: 25
Roll No. :

MARKING SCHEME

I. Multiple Choice Questions :

(12 X 1 = 12)

- (1) What are the benefits of using humanoid robots ?
 - (a) They can perform tasks that are dangerous for humans.
 - (b) They can work 24/7 without getting tired.
 - (c) They can be programmed to do repetitive tasks.
 - (d) All of the above.**
- (2) What are some of the challenges associated with designing and building humanoid robots ?
 - (a) Finding the right materials to use.
 - (b) Making the robot walk and move like a human.
 - (c) Making the robot think like a human.
 - (d) All of the above.**
- (3) What are some of the current applications of humanoid robots ?
 - (a) They are used in manufacturing and assembly
 - (b) They are used in healthcare to assist patients.
 - (c) They are used in education to teach children.
 - (d) All of the above**
- (4) Which of the following is NOT a characteristics of humanoid robots ?
 - (a) They have arms and legs.
 - (b) They are designed to look like humans.
 - (c) They are capable of emotions.**
 - (d) They can perform tasks that humans do.
- (5) What is the future potential of humanoid robots ?
 - (a) They will replace human workers in many industries.
 - (b) They will become more advanced and capable of performing a wider range of tasks.
 - (c) They will become more affordable and accessible to the general public.
 - (d) All of the above.**
- (6) Which of the following is NOT a feature of humanoid robots ?
 - (a) Artificial intelligence
 - (b) Facial recognition
 - (c) Speech recognition
 - (d) Four legs**
- (7) Which HTML tag is used to embed an audio file into a web page ?
 - (a) <audio>**
 - (b) <video>
 - (c)
 - (d) <source>
- (8) Which attribute specifies the source of the audio file ?
 - (a) src**
 - (b) alt
 - (c) width
 - (d) height
- (9) Which HTML attribute specifies whether to automatically start playing the audio or video when the page loads ?
 - (a) autoplay**
 - (b) controls
 - (c) loop
 - (d) muted
- (10) Which HTML attribute specifies whether to display playback controls (eg. Play, pause, volume) for the audio or video ?
 - (a) autoplay
 - (b) controls**
 - (c) loop
 - (d) muted

(11) Which HTML tag is used to create a hyperlink ?

- (a) <link> (b) <a> (c) (d) <href>

(12) Which HTML attribute specifies the URL of the linked resource ?

- (a) href (b) src (c) alt (d) title

II. Short Answer Type Questions :

(4 X 2 = 8)

(1) What is humanoid robot ? Give any two characteristics of a humanoid robot.

Ans. : Humanoid robots are designed to resemble human beings in form and function and mimic human movement.

- They have a bipedal form and can walk on two legs.
- They have a wide range of motion in their joints.
- They are often equipped with sensors, cameras and other tools for perception and interaction with humans.

(2) Write any four examples of robots that overlap between humanoid, mobile and industrial robot types.

Ans. :

1. AGVs (Automated Guided Vehicles)
2. Service Robots
3. Humanoid Industrial Robots
4. ABB YuMi
5. ANYmal
6. Bonyon Dynamics Spot
7. Toyota Human Support Robot
8. Spot Robot

(3) Differentiate between <A> as an anchor and <A> as a link.

Ans. :

The <a> tag in HTML serves as both an anchor and a link, but its function can vary based on context:

1. **Anchor:** When used as an anchor, the <a> tag defines a specific point within a webpage. This is typically done with an id attribute on an element.
In this case, clicking the link scrolls the page to the specified section.
2. **Link:** As a link, the <a> tag connects to another webpage or resource. This is done using the href attribute to point to a URL. For example:
Visit Example
Here, clicking the link takes the user to the specified external site.

(4) Your school's web address is www.thegreatschool.com. You want to create a link to this website from your web page. Write the HTML code you will use to do this.

Ans. :

<HTML>

<HEAD>

<TITLE> SCHOOL WEBSITE</TITLE>

</HEAD>

<BODY>

 website of the school

</BODY>

</HTML>

III. Long Answer Type Questions :

(2 X 2.5 = 5)

(1) Write any three identification rules of a mobile robot.

Ans. :

- 1. Mobility :** It should be designed to allow it to move around in the intended environment.
- 2. Power Source :** It should be designed with a reliable power source that matches the requirements of the application.
- 3. Payload Capacity :** It should be designed to match the tasks it will perform.
- 4. Safety and reliability :** It should be designed to operate safely and reliably in the intended environment.

(2) Distinguish between HREF and NAME attributes of <A> tag with the help of example.

Ans. :

HREF : The meaning of href is hypertext reference. It takes the value(link) as the address of the supporting document.

 website of W3C

NAME : This attribute gives a name to the anchor tag. It takes the value as "text string".

Sales order set up

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