

21/4/23

ASSIGNMENT 3

PAGE NO.: 18

DATE: / /

Unit-5 Bootstrap

Q.1

→

Write a SVG code to create a circle shape.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> SVG </title>
```

```
</head>
```

```
<body>
```

```
<svg viewBox="0 0 100 100">
```

```
<circle cx="50" cy="30" r="20">
```

```
</svg>
```

```
</body>
```

```
</html>
```

Q.2

→

Define image optimization. State the general image optimization strategies.

Image optimization refers to the process of reducing the ^{file} size of an image while maintaining its visual quality in order to create smaller, faster loading images that can improve website performance reduction bandwidth usage.

i) Image compression: This involves reducing the file size of an image by compressing the data

ii) Image resizing: This involves resizing the image to a smaller size, which reduces the file size and also avoid pixelation

- iii) Image format selection: Format can significantly impact the file size and image quality, such as JPEG for photograph with a lot of colours and PNG for graphics with transparency.
- iii) Image Caching: This involves storing frequently used images in the user's browser cache, which can improve the load time of subsequent page views.
- Q3
→ How do you make images responsive?
Making images responsive means designing them ^{in a way that} they can adjust and scale seamlessly across different devices.
- i) Use relative units: Instead of using ^{fixed} ~~fixing~~ pixel values, use relative units like percentage, em or rem for width and height of image.
- ii) Set max-width: ^{Set the} ~~So it will~~ max-width 100% for the image, to ensure that it will never exceed the width of its ~~tax~~ container, on any screens.
- iii) Use CSS media queries: Media queries allow you to specify different CSS rules for different screen sizes.

Q.4 Enlist Bootstrap layout Components.

—>

Bootstrap is a front-end development framework that provides a range pre-designed and reusable UI components.

- i) Grid System
- ii) Containers
- iii) Rows
- iv) Columns
- v) Navbar
- vi) Cards
- vii) Modals
- viii) Jumbotron

Q.5 Explain typography in Bootstrap.

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Bootstrap provides a set of typography styles and utilities that can be used to improve the ~~usability~~ readability and visual hierarchy of text content.

- i) Text - alignment: Can be used to align text content to the left, center or right of a container.
- ii) Text - transformation: Can be used to transform text content to uppercase, lowercase or capitalize.
- iii) Font - Family: Can be used to change the style or family of the particular font which ^{also} includes ~~font weights~~, bold & italic.

iv) Body text: Can be used to style the text in body section which includes '.lead', which adds extra emphasis and margin to the text and '.text-muted', which applies a ^{low contrast} muted or faded colour to the text.

v) Display headings: A set of display headings ('display-1' to 'display-4') that can be used to create large, bold headings ~~are~~ that stand out.

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