1. What do these spacing utility classes do to this headline?

<h1 class="p-0 p-md-4 p-lg-0">Headline</h1>

a. These classes will cancel each other out.

b. Since p-0 is first it will override all of the other classes. So the heading will have 0 padding on all breakpoints.

c. 0 padding on all breakpoints, 4 padding value on md breakpoint, then stop the padding from flowing to lg and xl. C

2. Fill in the blank: Setting a grid tier of .col-sm-6 says \_\_\_\_\_\_\_\_\_\_\_

a. Make this div 6 columns wide on the sm breakpoint and everything ABOVE A

b. Make this div 6 columns wide on JUST the sm breakpoint

c. Make this div 6 columns wide on the sm breakpoint and everything BELOW

3. The Bootstrap grid system is based on how many columns?

a. 9

b. 12 B

c. 6

d. 14

4. What are the main differences between ID and Class?

a. Classes are for use with spans and ID's are for use with DIVs

b. ID's are supposed to be only used once per page but Classes can be used multiple times per page, and one element can have more than one Class but should have only one ID B

c. Classes should be used only once per page, but ID's can be used as many times as you like on one page

d. ID's are better than Classes

5. A mobile first approach considers the goals of a mobile user and presents the content to help them achieve those goals. It removes all of the fluff and filler content and presents a concise collection of content that loads fast and is easy to use.

a. True A

b. False

6. A big challenge with responsive design is finding a balance between the content needs for both mobile and desktop. A desktop site has a lot of visual real estate that is often filled with carousels, videos, large parallax background images, and large blocks of text.

a. True A

b. False

7. In Bootstrap 4, 1rem = \_\_\_\_\_ ?

a. 14px

b. 16px B

c. 17px

d. 20px

8. What class name would I add to this image tag in order to make it responsive?

<img src="image.png" alt="image" class="" />

a. .img-responsive

b. .img-fluid B

c. .responsive

d. .fluid

9. Each class name begins with a prefix. Class name prefixing makes Bootstrap code more durable and easier to maintain, but it also better enables us to scope styles to only the relevant elements. What is another name for these elements or group of elements?

a. Widgets

b. Styles

c. Components C

10. Match the right Bootstrap breakpoint to the correct media query starting point

>=576px sm

<576px xs

>= 768px md

>= 1200px xl

>= 992px lg

11. What are the two main ways you can add Bootstrap to your website? Only select two options

a. Linking to the CSS/JS files on GitHub

b. Linking to a precompiled CSS/JS versions locally B

c. Adding the CSS styles in a style tag in the head of the document

d. Linking to a precompiled CSS/JS versions via CDN D

12. What class name would replace the asterisks in the code block below?

<div class="\*">

<img class="\*-img-top" src="" alt="image">

<div class="\*-block">

<h4 class="\*-title">Card title</h4>

<p class="\*-text">Copy</p>

<a href="#" class="btn btn-primary">Link</a>

</div>

</div>

//////////// card

13. Cards replace panels, thumbnails, and wells used in Bootstrap 3 and are essentially a contained group of content with a border and inner padding.

a. True A

b. False

14. What Bootstrap version should you use if you need to support IE9?

a. Bootstrap 2

b. Bootstrap 3 B

c. Bootstrap 4

15. What are the three main elements of the Bootstrap grid listed in the proper order.

a. CRC = .col > .row > .container

b. GRC = .grid > .row > .col

c. CRC = .container > .row > .col C

d. RC = .row > .col

16. In Bootstrap, content must be placed within...

a. Rows

b. Containers

c. Columns C

17. If you want to have 3 equal columns in Bootstrap4, which class would you use?

a. col-md-3

b. col-md-5

c. col-md-4 C

d. col-xs-4

18. What class name would you make a full width container in Bootstrap?

a. .container-full

b. .container-fluid B

c. .container-width

d. .container-fw

19. What does this meta tag do?

<meta name="viewport" content="width=device-width, initial-scale=1">

a. Tells the browser to look for media queries in the CSS file

b. Automatically makes a website responsive

c. Prevents browsers from scaling desktop websites on mobile C

20. Which of the following class styles a table with a light gray background to rows while the cursor hovers over them?

a. .table

b. .table-hover B

c. .table-striped

d. .table-bordered

21. Which of the following bootstrap style of button creates a default/ standard button?

**a. .btn A**

b. .btn-primary

c. btn-success

d. .btn-danger

22. Which of the following bootstrap style is used to create a pagination?

a. .breadcrumb

b. .pagination B

c. .menu

d. None of the above.

23. ……. Indicate the current page's location within a navigational hierarchy.

a. breadcrumbs A

b. pager

c. pagination

d. All

24. What class do use bootstrap to add multiple buttons as inline fashion stacked together?

a. .btn-group A

b. .button-group

c. .button

25. Which component is used to cycle through elements, like a slideshow?

a. slider

b. jumbotron

c. carousel C

26. Which component is used to create a modal window?

a. modal A

b. popup

c. fader

27. Which contextual class indicates a successful or positive action?

a. text-danger

b. text-warning

c. text-success C

d. text-info

28. Which of the following bootstrap style can be used to to get different size items of .pagination?

a. .pagination-sm

b. .pagination-lg B

c. .pagination-small

d. .pagination-sm / .pagination-lg

29. Which of the following bootstrap style of button represents a contextual button for informational alert messages?

a. btn-danger

b. btn-info B

c. btn-success

30. Which of the following bootstrap style can be used to get a muted look on buttons?

a. btn-muted

b. .disabled B

به سوالات زیر به صورت فارسی پاسخ دهید

1. Explain what is Bootstrap?

چهار چوبی برای طراحی سایت که شامل استایل ها CSS و کتابخانه های جاوا اسکریپت و فایل های html می باشد و این امکان رو برای developer ها ایجاد می کنه تا بتونن متاسب با device های مختلف، طراحی responsive داشته باشن

1. What are offset columns in Bootstrap?

**حرکت ستون ها به راست صفحه با توجه به تعداد ستون هایی که تعریف ذکر شده.**

**offset**-md-**6 : حرکت 6 ستون به راست**

1. What is column ordering in Bootstrap?

با توجه به نماهای مرورگر در سایزهای متفاوت می توان با رتبه بندی ترتیب نمایش ستون ها را تغییر داد

1. What class you can use to wrap a page content?

جهت چینش و قالب بندی و انعطفات پذیری متون و آیتم ها

**Word-wrap : break-word**

کلمات طولانی را شکسته و به خط بعد منتقل می نماید. که به عنوان یک ویژگی در کلاس تعریف و تگ های متنی مورد نظر استفاده می شود

div {

width: 150px;

border: 1px solid #000000;

}

div.a {

word-wrap: normal;

}

<div class="a"> thisisaveryveryveryveryveryverylongword. The long word will break and wrap to the next line.</div>

**flex-wrap**

1. Explain what pagination in bootstrap is and how they are classified?

یه کامپوینت که ارتباط زنجیروار بین محتوا ایجاد می کنه و امکان پیمایش بین صفحات مختلف رو فراهم می کنه. در واقع مدیریت یه لیست غیر ترتیبی که به صورت ترتیبی قابل دسترسی می باشند.

از آنجاییکه محتوا از طریق لینک هایی که به آیتم ها دسترسی دارند، قابل دسترسی می باشد، طبقه بندی به شکل زیر می باشد

.pagination: استفاده از کلاس مذکور برای استفاده از قابلیت

.disabled, .active: برای فعال و غیر فعال کردن لینک ها

.pagination-Ig, .pagination-sm:برای نمایش در نماهای مختلف

1. What is the use of Jumbotron in Bootstrap?

به یک کادر خاکستری اشاره می کنه، که توجه مخاطب رو به محتوای خاص جلب میکنه

1. Explain what are the steps for creating basic or vertical forms?

// <form>تعریف کل فرم با شروع

<form action="/action\_page.php">

// ***.form-group*** جهت معرفی کنترول ها و برچسب ها ،

و استفاده از کلاس form-control برای فیلدهای متنی و انتخابی  
  <div class="form-group">  
    <label for="email">Email address:</label>  
    <input type="email" class="form-control" id="email">  
  </div>  
  <div class="form-group">  
    <label for="pwd">Password:</label>  
    <input type="password" class="form-control" id="pwd">  
  </div>  
  <div class="checkbox">  
    <label><input type="checkbox"> Remember me</label>  
  </div> //

  <button type="submit" class="btn btn-default">Submit</button>  
</form>

1. Explain what is Modal component used for in Bootstrap?

برای نمایش دادن یک دیالوگ باکس در صفحه جاری

که شامل یک header , body , footer, button برای نمایش این دیالوگ باکس می باشد.

1. Explain what is Bootstrap Container?

جهت کادر بندی محتوادرقالب ستون ها به طوریکه به ازای هر ردیف می توان محتواهای تفکیک شده را در قالب ستون نمایش داد.

1. How you can add badge to list group in Bootstrap?

Badges ها در قالب دکمه، لینک و برچسب قابل نمایش هستند.

که بعد تعریف در کلاس container ، در تگ های مربوط از کلاس badge استفاده می شود

<a> از کلاس class="badge"

<button>از کلاس class="badge"

<h> از کلاس class="label label-default