College Roll-No: 191725 Level : Bachelors Programme: software semester: 2nd subject : Web Technology. Date: July 6, 2021. signature of Examiner: 4m

	Parieno
-	Q. N. 1.
1	
1	A. AAS.
1	for the company website development, I would use following
1	languages and tools:
1	· HTML5 (frontend) . PMP (Backend).
-	· CSS3
	· Javasexipt. + external Is library. · composer (PMP package
1	· Bootstrap (CSS framework). · Mysal Workbanch
	· Iquery (Is Library).
	· sans (css compiler).
	The transfer to the state of th
	J would be using these languages and tools because
	from use of these, we can achieve secure, tast and wer-
	furendly website with ease.
	The same of the sa
	second paul:
	To make our website live, we have to take care of
	two things. First we have to buy domain, second we have
	to buy required memory server and map domain to our
1	website (sequen).
+	Following steps will describe briefly about the steps:
+	Go to your favourite domain negistran website and search
q	
	on redninger vot
b.	If required domain is available then pold it to cast and
	make payments. The domain thus bought would be saved
	in your account.
c.	Most of the domain registras company provide hosting
	services, but if they don't then go to your favourite hosting

d. Select your siequipled hosting package and the sexues (Windows server or Linux sexues). e. Add your hosting package to court and make payment. 1. You will be given prame sources name (primary name server and other name sourcer) copy that and set to the DIVS of the domain and save it. For other option such as redirect, canonical name you can sot from Domain amount only. g. Now, our domain is connected to the server. when someone his the domain, will points to own sexues. h. Zip all your website data and configuration and opload in your server. Or, you can use other methods such on SSH to do so. q. Extract your webtiles and setup your database (if required). Make sure your one of the file is ronamed as 'index' with some extension, so the server will point that tile as the homepage of website. Now, when one enters the domain in books upl boy the website gets appear and it is online now.

B. AN.

These both perotocol (http & https) are use for hyper text transfer over the world wide web. The only difference in them is, http doesn't encrypt the transfering data whereas https does encryption of data, making data safe and secure.

the great advantage of using https is, cull the website data transfer will occur in encrypted form, which provent from big security called Mitm (Man in the middle) attack.

second pasits:

There are lots of techniques to convert hitp to hitps and some of them are:

- a. By signing to https centificate, we can install in own server and make http to https.
- b. OR, we can connect our senver to cloudplane which by default enable https for data transfer.
- c. OR, the ear mun auto-SSL conficate in most of the dashboard (mainy cpanel) of hosting which will make https.
- d. OR, we can re-write some config to our server to convert au http request to https request.

C. Ans.

Among using the frame and using html/xhtml+cs, I would priet the second option i.e. htmlxhtml+css.

It is so because frame (one of HTML tag) is a very old and complex inconcept to divide web pages into different sections.

But with the use of him of us, late can simply make divisions (div) and set our content positions to it.

Content positions can be relative, absolute, sticky, fixed with the values of left, right, bottom and top.

And for more content alignment or for division, we can make use of 'flex' or 'grid' properties of use of css.

Yes, although from frames we can load multiple webpages at once but this totally doesn't imply to the modern websites. To load multiple webpages, we can make use of iframe instead of frame with html 4 css.

whether we select frame or html+css, the main purpose of them is to divide the webpage into different sections so we can place required content in that place. So for that css techniques would be really helpful in terms of flexibility and easier coding.

Q.N.2.

A. AN.

11 registration \_ form - php.

T paul>

Lhead)

Ltitle> Registration form 2/title>

```
L link rel = "stylesheet" see href = "style.css" 17
 Lacript src = "validate.js"> 21 script>
11heads
Lbodys
     Ltom action = "register.php" method = "post">
           Llabel> full name & Espan itting "asterik"> * LISPAN>
             4 sup> </ label> id="fullName"
            tinput type="text" name="toll-name">=/>
             (lod)
            Llabel> Mobile Lsup> Lspan come "asteuk"> * (15pan)
                                     id = "mobile Nump
            LIsup> 2/ Label>
            Linput type = "number" name = "mobile-num")>
            TP1/2
            Llabel> Password Lsup> Lspan class = "asteuk">
            * Lispans Lisup> Lilabel> "parsword" hame = "parsword" />
            1611>
           Llabel > Confirm parsword Lsup> (span clans = "astorix")
            * LISPAN> LISUP> LILabel> id : "confrontans"
            Linput type = "confirm parsword" name = " confirm
             parsword"/> 1611>
            Llabel > Email 1sup> Lspan closs = "asterik">
             * Lispan> Lisup> (Ilabel>mi)
            Linput type = "email" name = "email"> (bil)
```

```
Liabels Date of Biseth Lsups Lspan clan = "asterik"}
             * 21spans 21sup> (1 labels
                                         id = "ddo"
           linput type = "text" name = "dob" required /> Loris
           Llabel 7 Departments 1/1abel>
           Lister name = "department_ List []">
                  Loption value = "mg"> Management Lloption>
                 Lophon value="web"> Web Devalopment Llophon
                  copium value = "qa"> quality Assurance Llopium
          LISELECTS (PLI)
         Llabels Date of Appointment Lsups Lspan closs =
          "(astorik") * (Ispan) (Isup) (Ilabel).

Linput type = "text" name = "doa" required 1> (br)>
        Lextanea name = "description" arous = "5" cols = "10">
        LItertaneas (bil)
                                                 id = tractive
        Liabels Status Lilabels
        Linput type="radio" name = "status" value = "
         active"> Active.
        active"> Active. id = "inadive"

Linput type = "radio" name = "status" value = "
         inactive"> In Active.
        Linput type = "reset" > clean 1"/>
        Linput type = "submit" value = "Register">
11 toim>
LIbodys
4/html>
```

B. AN. I would priefer external level of stylesheets to implement the styles Because external stylesheets are easier to manage and optimize codes, as all the styles will be in one tile so there won't be any house to find contain element in document to make changes for. As in terms of seability of website, external stylesheeting of CSS is must. And for langer acomponents to style, external stylesheeting is very handy and casion as comparied to inline and internal stylesheetings. It can be achieved by creating external file ending with ess tile and linking to own page by using link tag. As shown in previous tode: (as) Llink rel= "stylesheet" href = "style, Us">. style. css. body & background: wheat; input [type = "text"], input [type = "pansword"], textarea } background: blue; 3 input [type = "submit "] } color: white;

```
span · astonik &
         color : red;
C. ANS.
   validate-is
   van follNome = document. get Element By Id ("foll Name");
    VOU mobile Num = document. get Element By Id ("mobile Num");
    function get Element (id) {
             return downent. get Element By Id (id);
    vous parsword = get Element ("parsword");
    vous confirm Pars = get Element ("confirm Paris");
    vou email = get Element ("email");
    van dob = get Element ("dob");
    vau doa = geterement ("doa");
    vous description = get Element ("description");
   vous active = get Element ("active");
         inactive = get Element ("inactive"):
   Nag
    tunction is Empty (payams) &
          return params. includes ("");
```

```
if (is empty ( [tollName - value, mobile - Num - value, pars word - value
             confimPars. value, email. value, dob. value, doa-value,
             description.value])
       if (active. value = 11 noctive. value = 11 m)
                 alout ("complete all the fields");
else 5
       if (password.value = = confirm Pans)
           Your pos = email-value-seasch (/1/w+ ([1.-]?
              1 w+) +@ 1 w+ ([1.-]? (w+) * (1.1 w {2,33)+$1)
              if (pos! == 0) alord ("Invalid Email format");
              else à
                  vau ses = mobile Num. value. greasch (/1
                   9+[0-9](9311);
                   If fres! =0) alend ("Invalid Mobile Number");
                   else &
                          alort ( " form validated ");
                    3
             aloud ("Incorrect parsword + confirm pensword");
      else
```

```
D. Ans
    that database-init.php
    12 php
          shost = "localhost";
          $ Wen = " root";
          $ pans = " 100+";
         $ con = mysqli_connect ($ host, $ user, $ pass);
         $ con > query (" create DATABASE attendance");
      sab-my sqli - select-db ($con, "attendance");
         if ($db) {
          echo "database created";
           $ con - query (" create table staffs (sid
            int primary key ADTO_INCREMENT, toll_name
           vouchay (50)
           mobile-num (15),
           parsword vauchar (100),
           email varchau (50),
           date-of-birth vauchau (50),
           date-of-appointment dates,
           description text, department varieties (20),
           status vauchan (10) )"):
     else S
           echo "could not create database";
           die();
```

```
insect _ to _db. php.
 L? Php
       $4011-name = $ - POST ["4011-name"];
       $ mobile - num = $ - post [ "mobile - num"];
       $ parsword = $ _ posT["pansword"];
      & confirm - pansword = & - POST["confirm - pansword"];
      $ email = $- POST ["email"];
      $ dob = $ - POST["dob"];
      $doa = $ _ POST["doa"];
      $ department = $_ POST ["department - List"];
      $ description = $ POST ["description"];
      $ States = $ POST ["status"];
       $ con = mysqli-connect ("localhost", "root", "root",
                                 " attendance");
$100 = $ con -> query ( "insent into states (toll-name, mobile_non,
                   parsword, email, date-of-birth, date-of-
                    appointment, dos (riphicm: Status) values (
                    $ toll-name', '$ mobile-num', '$ pansword',
                    'semail', 'sdob', 'sdoa', 'sdesciption',
                    ($ department; 'sstatus')");
          if ($ res) echo "Insorted to database";
          eve echo " error during insertion to database";
  77
```

```
Q. N. 3.
   A. ANS.
         login - dom. php.
       Lh+m1>
       1 heads
               Ltitles Login (Ititle)
       (Inpad)
       ( body) eform action = "validate_login.php" method = "post">
         that Log in LIMAT
         clabels (sernamel email: Linput type = "email"
          name = "email" /> (Itabel) (bil)
          clabels parsword Linput type = "parsword" name =
          "paysward" required 1> 2/ Label> (b11)
          Linput type = "checkbox" name = " eheck">
           Remember me (bil)
           Locateux linput type = "submit" value = "Login" >
           4 centers
      (MIOFI)
     Libody
   114m17
B. AN.
     Validate_legin.php.
  Laphp.
        $email = $ - POST["email"];
        & pans = $ - POST[ "ponsword"]:
```

```
$con = mysqli - connoct ("Localhost", "root", "root", "attendance);
     if (! I con) die ("couldnot connect to destubuse");
gres: $ con -> query ("select + from staffs where email= 'semail'
                  and pansword = '$ pans' limit 1");
     if ( fres) echo "Attondance succensful";
      else echo "Invalid credentials";
     mysqli_close (scon);
C. Ans.
       If the user checks the remember me button then we
    can set cookie of the data.
  As below,
     Lophp.
          If (isset ($-POST["check"])) {
               set cookie ("email", $_POST["email"], time ()+7
                    *24*60*60);
               11 +me()+7*24*60*60 = 7 days.
              set cookie ("pass", $-POST["pans"], time()+7*24*
                60 +60);
            11 setting password in cookie is a bad practice.
      73
  And when ever user goes to login town we can check cookies
  and if that a exist we can redirect them to homepage else
   back to login page.
```

```
Q.N.4.
  A AN.
       Yes, DOM is very useful in Javascript. Because of
      concept of DOM and its manipulation modern single page
      application can be made; hence makes webpage very
     +cu+.
     some of the examples of DOM manipulation are:
    < h+m1>
    Lhead>
        Ltitle> Create Outtons LItitle>
    Lineads
    (body)
          conput type= "text" id= "input field" placeholder=
            " Enter Button Namo")>
          Linput type = "button" value = " (reate Buttons"
           on Click = " create 13th () " 1>
          1611> (h3) (reated Buttons: L/h3)
          Ldiv id = "container"> LIdiv>
  (1body)
  (script>
function (reate Btn () }
vous Bin = document.create Element ("button");
    btn. Inner Text = dament. g et 81 ament By Id ("input Field")
                      - Valuo :
  document. get Element By Jd ("container"). innerHTML+=
     bitn :
LiBeripts 11 html>
```

```
o, example a: Toggle visibility of Image.
   1ntm1>
   Lheads
         Little> Image Visibility toggle 1/11/12>
   11 heads
   (body)
       Limg sic = "a.png" style = "duplay : block" 1>
        L'button onclick = "toggle Image ()"> Toggle Visibility
        (1button>
   41body>
  LSCript>
       function toggle Image() S
             Was img = document-get Elements By Tag Name ("ima")
                           [O]3
             img. style. display = (img. style. display = = "block")
                                    ? "hidden"; "block";
  1/script>
  41 htm1>
Example 3: Appending text to webpage.
THEMIS
Lhead>
       Ltitle> Appending text Lititle>
LI head)
 Lbody> Llbody>
  (script) downerd. body. innouHTML = "Lh1>HelloLlh1";
  LISCHIDAS
  (Intmi)
```

```
B. ANJ.
     No. Drag and Drop teature cannot be implemented
     by using php Because php is backened language and
    doesn't deal with fronked DOM manipulation. The
   Drag and Drop teature can be implemented by manipulating
    DOM by using javascript.
   Example of drag and drop:
  LAtons
  (hoods
      Listing stre : meldiop is "> Listingto
  (1head)
  Lbodys
       2 span id = "text 1" style = "position; absolute; let; sops
       top: sop x;" on mouse down = "grabber (event)">
        Drag me (/span)
   4/bodys
  LI html>
ddrop.js
vous diffy, diffy, object;
tunction grabber (event) ;
       object = event. curren Tanget;
       you posx = parse Ind (object-style. Left);
       vous posy = pouse Int ( object. style. top);
      diffx = event · Clientx - posx;
      diffy = event. creaty - posy;
```

dacement add Event Listeners ("mousemove", mover, true);
document acid Event Listeners ("mouseup", droppers. true);
event . stop Propagation ();
event . prevent Default();

object.style. left = levent. cirentx - dift 4) + "px";

object.style.top = levent. client x - dift y) + "px";

event.style.top = levent.client x - dift y) + "pm";

document. remove Event Listener ("mouse move", mover, true);

document. remove Event Listener ("mouse up", dropper, true);

event. stop Propagation ();

3

3

C. Ans.

No, the cookies and sessions are not the same thing. They are different in susecases. The main purpose of cookie and sossion is to store data but cookies stores in the browser whereas sessions are stored in server.

to were and are stored in hanhed form in the server wherean cookies are stored in browser and is sont to header for ever request. So, the sensitive data shouldn't be in cookies.

example of using cookie:

set cookie ( key, value, Hme: for expiry).

Example of using session:

\$\_SESSION ['key'] = value;

for session; we have to manually start and destroy it but for cookies we don't have to.

session - start(); // for starting session.

sension - destroy(); // for destroying session.

scenario for wing Cookie:

Twhen we have to keep track of in-sensitive data such as follName, website Name, No. of Hems in Court. We can make use of cookie. We should always make sure that there is only required and limited data on cookie. It should not be heavy) If it is heavy it will have more time in data request.

scenario for wing sension:

when we need to hold the activity or sossion of wer loy in, or, when we need to hold the sensitive date; which are only limited a required for server. So, in this case sessions are really helpful.

It can be stored as, \$\_\$28\$IDNI'Ingin\_status'] = true;

To retrieve its value, we use: \$data = \$\_SESSION ['login\_status'];

for cookies,

setcookie ('first\_name', 'saroj', time()+1+24+60);

To retrieve its value, we we set ('first-name');

Jes, they differ from each other.

Q.N.5.

A. And.

in PUP

mages, videos, pdf) in the server for the future we.

who can't surely say that the tile stored in server are always secure. It depends upon the system itself and how the files are saved in server. The file stored in the server has to be backuped frequently by making cron jobs or other methods.

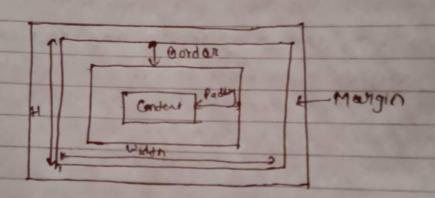
If the person uses linux server for storing.

they should take cause of file permissions and make sure that

it only be accessible to passificular wer.

B. Ans.

properties including baders, margin, padding and the conent itself. It is used to create the design and largout of webpages. It can be used as a toolkit for customizing the largout of different elements. The web browsen renders every element as a rectangular box according to US box model.



tig: CSS Box Model.

Borden: It is the area between the box's padding and margin.

It's dimension is given by height & width of borden.

Margin: It is the area or distance been the parent and its

Padding: It is the inner area or distance created by box itself for its inner content.

PAGE NO.
Example:
ipre.
2 htmls
L heads
Ltitles Css Box Model Utitles
Latyles
body S
margin-top: 20p2;
3 - Contract - Contract
· containers
padding: 20px;
height: 300px;
width: 50.1.
3 10 10 10 10 10 10 10 10 10 10 10 10 10
The state of the s
2187418>
/ hodu>
Laiv clans = "container">
Hello World.
L/div>
12/body>
7,500
11-21
Lintols.

C. Ans.

way to give multiple options of value to the wext.

checkboxes: It is assed when were have to select more than or multiple values in most cases. Or, simply it can be used for single field also.

Less remembering possible of tempreement to terms & conditions).

Radio Buttons: It is also similar to checkboxes but they are generally used for selecting only one Value out of multiple values.

Dropdown: Dropdown is a fancy way for displaying multiple ophim for user. Doopdown value can be made to select one or made to select multiple as per requirement.

radio bestions and dropdown menus

```
Q.N.7.
B. ANS.
     Practical use of stacking Elements in Javascript:
            The following example illustrates the concept of
  stacking elament in Javancript. Basically stacking elements
  are simply achieved by using z-index property of css but
  also we have to check for mouse event using Javascript.
  Lhtm1>
  Lhead)
         Ltitle> Image Stacking [ !title>
         Lstyle>
          #img1 $
                    position: absolute;
                 top: Opn;
                 left : Opx;
                    z-index: 0;
          #img2 {
                    position: absolute;
                    top: 100px;
                     lett: SOPX;
                     z-index:0:
         #imq 3 $
                  position : absolute;
                   top: 200px;
                   1eff: 100px;
                   z-indea :0;
```

```
LIstyle>
  (script type = "text ljavascript" sre = "stack.js"> (Iscript >
 Lineado
  L body>
       Limg sic = "birdy . jpg" id = "img 1" onclick = "move Top ('img1')"
       Ling sic = "a.png" id = "imga" ondick = "move Top ('imga')"/>
      Ling sic = "b.png" id = "imgs" ondich = "move Top ('img3')"/>
  LI body>
 (Intm)>
Stock. is
var current Top Image = "img 3";
function move Top (new Top Image) $
        vor current Image = document. get Element By Id (current Top Image);
        current Image = current Image . style . z Index;
       var new Image = document. get Element By Id (new Top Image);
       new Image = new Image. style . z Indea;
       current Image = "0";
       new Image = "15";
     Current Top Image: new Top Image:
```

PAGE NO.

## C. Arrays in PHP:

Arrays are speciable variable that can store multiple values. In PMP we can store any type of values in away. Whoseas In other languages like C,C++ we have to specify certain data-type for that array and we can only store value of that type.

In PHP there are three types of array.

## i. Indexed array:

It is general array where values are saved with numerix index. The first element of array can be accessed by index 0. and similar with increasing number of element with increasing number of element with increase in index.

Ex: \$ cases = array ("toyota", "Lambhorgini");

Here, \$ cons [0] gives toyota. \$ cons [1] gives Lambhorgini

or, it can be defined as,

\$ caus = array();

\$ caus EoJ = "toyota";

\$ caus [1] = "Lambhorgini";

## ii. Associative away:

It is different form of array where values can be stored as key-value pair without need at indexing it.

```
It can be created in two ways:

I htrost = array ("sanoj" > "Books", "Prabesh" > "singing");

OR,

Sinterest ["sanoj"] = "Books";

I haterest ["Prabosh"] = "singing";

It is quite easier to areas and play with because one don't have to remember index, one can simply remember the key
```

iir. Multi-dimension anay:

value of anay.

It is an array containing one or more arrays in it.

It comes out to be handy when we have to store lauge numbers of data into a variable.

\$ interests = array (

array ("saroj" => "Books", "Raro" => "singing"),

array ("Aabesh" => "(oding").

);

can simple add another array in the finterests array.