Ajay Kumar Garg Engineering College, Ghaziabad Department of CSE

Model Solution- ODD Semester (2017-18)

Sessional Test -2

Subject Code

NCS-504

Subject Name

Web Technology

Names of Faculty Teaching with Signature

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Name and Signature of Hod:

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A. Attempt AU the parts.

(Sx2=10)

B1. Define anchor tag and image tag of HPML Will an Coample of each.

And Anchor tog is wood to: - create a link for the file. It creates hyperlink in the web page. Enample:

Ancest tog is written living <97 tog.

Image tog is wrid to include on image in
the web page. <1mg> tog is wid to create

On display an image in the web page

<ing stec="Pict.ipg">

Ling stec="Pict.ipg"

Ling stec="Pict.ipg">

Ling stec="Pict.ipg"

82. Differentiate between HTML and XML.

(i) It was pre-defined tags

HTML

- (ii) Him L is used to fresent the dala on the web page.
- (iii) closing of tog is ophony

XML

- (i) It was the defined
- ii) xml to the dela from
 one Location to other
 location.
 (iii) closing of tag is
 manadatory.
 Age-1

XML

It was CSS (lancading style shoul for styling of the web page

larguage

(iv) It leves XSL (Externible stylished for presenting xmz dala on the web page. It is care-insensitive MIt is care-sensitive language.

03. what is we of Reglemp obsident of Java Script? Give an enample.

Regular object is used to create an object With a fathern. Patterns are lived to rearily the content in the given string.

tenampey

path = new legemp ("e");

tette object consists of pattern "e". The Object ions test (1 methord to search the pattern in the given string.

> patto. dest (" This is the best engineering (allege");

> > Page-2

Ans. Get mukod

- (i) Get method bromfers the data with URL
- (ii) Dda és visible on URL, it is not secure
- (iii) It is lived for small amount of dola
 - (IV) It is default method. It is easy to implement

Past method

- (i) Post method bonston the date wing body of Connection.
- (ii) Date is not visible. It is recure.
- (ii) It is sured for large amount of data
- (iv) There is need to set this method in Form tog.
- Dr. Discuss ux of framesel and frame tag of HTML using an enample.
- Ams. Frameset stag defines number of divisions of the web page. It can be column wise or sow wise.

 Frame tage: & Each division is called frome.

Page-3

Frame tog displays a web page in the division of the web page

Enample

<frameset (obs = "5010, 5015")

<frame src = "fl. Rhml")

<frame sr2 = "f2. Lhml")

</framesels</pre>

Page &

B. Attempt all the parts.

 $(2 \times 2 = 52)$

66. What is the vole of CSS? Explain various stypes of CSS that can be lived in Hem L to sogramming.

Ans. Role of CSS: - CSS (Caxacling Style Shot)

brovide good love and feel of the web page.

It presents the dala of the web page in attractive and more readable form.

Types of USS: - There three types of USS

(i) In-line CSS

air Internal CS

(ii) Enternal (SS

In-line CS:- CSS is define within the same tag. Foramble:

ALGRE 21 Color: blue; font-size: 12P*"

ALGRE 21P)

Internal (SI:- It is defined within Read tog living (style) tog. Enample

Page-5

Examply: (RAMI) (Read) 2 style> P & Color: blue; fort-size: 12 px } </style> Z/Read) CP) AKGECLIP) (Rhal) Enternal CSS: - In this care, css is defined in a separate file. Engrafy. a.css P & color: blue; font-1003e:12Px3 a.css file is linked in a Reme file. An given below < Rhore > (Read) Clinic rel="stylished" type= "text/css" fref="a.css"> 2/Read) < body> CP) AKGEC UP (1hody) Page: - 6 LARMY)

further CSS can be defined living two ways on bosin of selector

ID Sclerks: # IDI & color: blue }

clan Selector:

· CSI {color: blue}

on set of tags.

<P clan="CSI"> AKGEC 2(P)

87. Dincum the difference between Dom and SAX parses. Specify situations in which a particular parser in suitable.

And: Dom: (Document Object model)

- . It is a posses to posse dala of XML wing tree-based structure.
- · It first reads entire document, then it storts farring the RML file.
- . It takes longe memory for storing entire
- . It provides flexibility to move in both directions: fowerd and reverse directions.
- . It allows insertion and deletion of

SAX:- (Simple API for XML)

- This event based parser. Whenever are noder of rm L is found, an event is fired.
- · call backs are oriented on each event
- , start and classing tags are considered as

Page-D

- o Text within the nodes are considered as separate node. Event is fired whenever text is encounting in the XML file.
- · It does not store entire document.
- It is unidirectional forser.
- , It is easy to me for barring xmr file.
- . It :- uses small memory for parsing.

Situation in which parser is suitably

Dom parser in suitable when there is need to insert and delete rodes in the xmz file and both directions of toovering is are required it is suitable for small documents

SAX parson in suitable when there is need to traverse in the AMIL document in forward direction. It is suitable for fast boversing of the document. It is suitable longe document.

Describe various ... of ready State property of AJAX.

AJAX (Angrikronow Java Script and xm2)

provides asynchronows communication to web

page. Voing AJAX, the part of the web page

can be: " bydoted that increases

Tesponse sime of user.

Steps of writing AJAX Program

Stept: Create an XML HHB object

XML HHB = NOW XML HHBROGRENTO;

Steps: Sepecify and Randlur () of alert ("Within Randlur");

xml HUp. onready state (Range = Randlust)
Onready state (Range froperty is used do sperify the
Landlus of AJAX program.

Page:-10

Step3: CReck ready late property. It response from server is received, then frocen the dala. If (xme Hup, ready State = = 4 ++ xmlHup. slatus == 200) 11 instructions for processing stepy! make a connection with server using open () and send () method. XMIHALD. open ("Get", "Resultigite name= AKGE (", frue); xmethup. send (); States of readystate property value State uninitalized Connection established 2 Reguest sent Regrust sent & Procenny Recount completed < 4 and nestome received

29. Wolfe a Jara Bean boogsam for employer Information (EmpMo, Mame, Designation). Employer number (EmpMo) should be read only. Create an object of Jara Bean and display employer information. Jara Bean pougeam public clan employee [in Empro String Name; String Dengration;

employer() (

RompNo = 11)

publicint getempho() (return Empho)

public roid solMame (Shing n) {

Name = n;

PaziNo:-12

```
public String getMame () {
             return Name;
   public void set Denisnation (String d) (
               Denisnation = d;
   public string get Designation () {
            3 neturn Denignation;
   I 11 end of java bean
clan Test s
  public static void main (String args [7)
          employer er = new employer();
                e1. set Name ("Rojesk");
                el. set Designation ("Rogenor");
            String name = e1. get Name();
            String Design = engetherignation ();
            int empro = el. fetempuo ();
         System. out. println ("Emp No. is "+ empro);
         System-ow- problem (" Name is"+ rame);
```

System-ow-println ("Deossnation is"+ Derson);

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I 11 end of Test clan.

A java bean ramed "employer" in created. It's object is created in the clan "test". Properties of Java bean are set wring "set method and values are retrieved using "get" method. No "set" method for "bompno" property to make it seed only property.

BID Define the terms related to VB script (i) Dim (ii) option Emplicit (iii) Dynamic Array (iv) Sub brocedure (v) function. Give an enamble of each.

And VB Scorpt:

(1) Dim! - It is used to define variable in the VB script.

Dim corrane = "moruti"

(ii) Option Emplicit: This keyword mandates that variables should be defined using "Dim" keyword.

Option Explict
Dim corrame = "moruti"

In this care, if variable is defined without keybood Dim, then error will occur Page:-14

(iii) Dynamic Array! - It facilibres that an array dize can be redefined in VB script wing the keywood Redim.

Dim (ans();
La Novaige

Redim (ans (10)

La Nova given

Redim (ans (100)

La Nova size is 100

Reclim Preserve (ans (100)

La Preserve He dala also

(iV) Sub Procedure: It defines a procedure Seib Disp() alert ("AKGR c"); End Sein

(V) Fainchian: - It defines a function that returns a value

function Sum (a, b)

Sum = 9+b - it returns

Function of anchon

Grd fainchian

a+b.

Pege:-15-

C. Attempt au the four.

(2x7-5=15)

BII. What do you mean by scripting larguage?

Write a HTML trogram with Java Script

Which validates toushibute information (trustituteno,

trustitutenome, Address, Email). Perform tollowing

validations:

- (1) Institutello should be not emply and must be numeric
- (ii) Institute Name should be alphabetic and should: have maximum of 15 characters
- (iii) Addrew should be alpha numeric
- (iv) Email field should have valid email. Emplain the program in bried.

Am. Scripting larguage: Scripting larguage is used to validate the client data. If client data in correct, then data is submitted to somer. It is easy programming larguage. It saves server procerning time because validation is performed at client machine. Scripting in also used for small programs at client side.

```
HTML Boggam

<RIMI>
<Read>
<hilli
```

Zitle Validation escumple

Zempt

Junction Validate ()

Var Ino = document fl. Ino. valve;

var Iname = document fl. Iname. valve;

var Iadd = document fl. Iadd. valve;

var Iemail = document fl. Iemail. valve;

Var path $2 = / \Gamma [0-9] + I / i$ var path $2 = / \Gamma [0-9] + I / i$ var path $3 = / \Gamma [0-9] + I / i$

Var path 4 = /1[1w1-1.]+1@[a-3]+1.[a-3]
[21334/;

If (Ino.length == 0){

alert("Institute Mo is emply");
}

If ([Ino. match (hatters)) (
alert ("touthble no should be numeric");

y

```
If (!Iname. male ( fatt 2)) {
                about (" name should be numeric");
    If ( I Iname, lingth > 15) [
                alest (" should have maximum 15
                                 (Raraders ");
    If (Lagg. worth (pagus)) [
               aler ("Addres should be affanimuin),
     H (! Lemail. mater ( pathry)) {
                aler (" Incorrect formails);
  I 11 end of validate function
 (1)(up)
2/Read>
<body>

Lform name=fl action="flut.trp"

                              onsubmit="Validate();")
   FrithleMo

"Input type="fext" name="Ino">
   Fortiture Mame
   Pogl:-10
```

Institute Address

Linford type="text" name="Ladd">

Forstitute Email

Linford type="text name="Lemail">

Linford type="text name="Lemail">

Linford type="rubroit">

Linford type="nubroit">

Linfordy>

Linfordy>

Emplanation

validate () function in java resibil increased.

It receives tuses information and stores the dalp in the variables.

Validate () creates various patterns for matrix the turn inputs are not matrix, it gives about menage to tuses.

DIR. Write rules of writing arms program, write an XML file with corresponding DTD for book debail (Book No, Tithey Price) with one attribute '(opiesi in Book No tog Hat shows number of cotoies of the book XML file should have information for al least three books

Ans. Rules of XML forgoom

- · XML file skould have one root tog only.
- . XML tags must be closed.
- . XML file should be written in > Stoudure format
- · Starting tag name and closing tag name.
- · entention of file should be . xml.
- · XML starts with the instruction <?>

```
XML WILL DO
53 xml revoion ="1.01, 1)
<! DOCTYPE
               Bookdulail [
( I ELEMENT
               Baskdeleil (Bask)*)
CI ELEMENT
                 BOOK (BOOKNO, Title, Poice) >
SIETEWENL
                BOOKNO ( IPCDATA) )
<! ELEMENT TITL (# PCDATA))
LIELEMENT Bice (# PCDATA))
LIATTLIST BOOKNO COPICS CDATA "1">
 3>
 (Basicabail)
      < Book >

Z Baok No Copies = "20"> 123 Z/Baok No>
          (Fifty) Jara Script (Tible)
         < Pria> 200 < Pria)
      (Baric)
       ( Book)
           < Back No (offices = "30") 267 2/BackNo)
           <Tilly Jarg <Tilly
           < Price > 400 2/ Price>
       2/Back)
```

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(Bookno Cotories = "15") 784 (Bookno) (ATILL) Software (ITILE) (Poice) 250 (IPoice) (1800K)

(Bookdeleil)

Explanation

Three books are created in the xmh file. Book No tag consists of one attribute name copies.