PROGRAMMING THE WEB

(10CS73)

QUESTION BANK

UNIT – 1- Introduction and HTML

1. Describe a fully qualified domain name and What is the task of DNS name server?

2. Define Hypertext. Explain briefly the operations and Characteristics of WebServer?

3. Explain briefly the origins of World Wide Web.

4. Explain briefly the origins of Internet.

5. Write short notes on Apache and IIS.

6. Explain Uniform Resource Locators.

7. What is the purpose of a MIME type Specifications?

8. Explain the request and response phase of HTTP.

9. Write a note on i) security ii)filters and pulgins.

10.Explain Web programmers Toolbox.

11. Give the difference between i) Java and JavaScript ii) HTML and XHTML.

12.Define Xhtml? Briefly explain paragraph tags,Xhtml comment, breaktags.

13. Explain with an example the various Parse tags used in Xhtml.

14. Create an XHTML document that marks up your resume. It must contain one image showing your photograph and also at least one list, one table, one internal link and one external link.

15. Create an XHTML document that marks up your favorite actors and actress to describe an unordered list . It must contain an ordered list of five favorite movies of your favorite actor/actress. It must contain a definition list of images showing your actors or actress photographs.

16. Create an XHTML document to describe an ordered list with the following contents: the name of your college use the header tag the highest level should be the names of various branches ,with your major branch first. Under each branch include a nested ordered list with the semesters. Each of the nested list must have nested lists that lists the core and elective subject list in order with the subject codes.

17. Create an XHTML document to describe a Table with the following contents. The columns must contain the names of at least 6 cities. The rows must have the labels City, its capital, highest temperature, lowest temperature and include the attributes to specify cell spacing, cellpadding, colspan, rowspan, align and the valign attributes. And also include the caption tag.

18. Create an XHTML document to describe a Table as below: include the following contents in the table describing Tv programme schedule timings enter your favourite channel names , name of the program, and description of the program. Include the attributes to specify cell spacing, cellpadding, colspan, rowspan, align and the valign attributes. And also include the caption tag

Channel Names	Timing Schedules			
	6:00AM-12:00PM		12:00PM- 5:00PM	
	Show	Description	Show	Description
Channel1				
ChanneL2				
Channel3				
Channel 4				

19. Create an XHTML document to describe a Application form for creating an email-account The form must include various text fields,password, radio buttons, check boxes, dropdown menu ,text area,and the action buttons etc…….

20. . Explain Web servers operation and general server characteristics.

21. Explain any two web programmer's tools used in web programming.

22. Briefly explain why one should use XHTML over HTML.

23. Create an XHTML document that has four frames there must be 2 rows .the first row of frame must contain 2 columns frames of equal width and the second row with 2 column frames width width 55% and 45%. The first frame in the top row must display 3 links to other documents the links must be names of cars, the documents must be 5 line descriptions of the cars. One of the bottom frames must display those documents. The second frame in the top row must display 2 links to other documents the links must be names of showrooms the other bottom frames must display documents which must have 5 line descriptions of the showrooms.

24. Explain the standard XHTML document structure. (08 Marks)

25. Explain the following tags with syntax and an example for each:

i)<p> ii) <pre> iii) <sup> iv) <sub> v) <blockquote>

UNIT – II

XHTNL,CSS

1. What tag and attribute are used to define a link? Discuss about it.

2. Explain all controls that are created with the <input> tag with examples, which are used for text collection.

3. Explain the XHTML tags used for lists in documents

4. What is the purpose of external level style sheet? Compare it with the other two levels.

Write the format of external level style sheet

5. Explain all selector forms.

6. Explain and tags.

7. Write a note on conflict resolution.

8. Explain the different levels of style sheets are available in CSS.

9. Explain following tags, with example:

i) Select ii)Frame iii)Textarea iv) Div

10. Write a XHTML program to create a table with two levels of column label: an overall label, meals and three secondary labels, breakfast, lunch and dinner. There must be two levels of row labels: an overall label, foods and four secondary labels, bread, main course, vegetable and dessert. The cells of the table must contain a number of grams for each category of the food

11. How lists are handled in XHTML? Design an XHTML code for illustrating nested lists.

12. Write an XHTML document to describe an ordered list of four states. Each element of the list must have an unordered list of at least two cities in the state

13. Explain the following, with respect to table creation in XHTML documents.

i) <table> ii)tr, th and td attributes iii)rowspan and colspan attributes

iv) text decoration v) and .

14. Design an XHTML code for constructing a sample class timetable to illustrate table Handling

15. Write a XHTML program to create nested ordered lists of cars. The Outer List must have three entries: compact, midsize, and sports. Inside each of these three lists there must be two sublists of body styles. The compact- and midsize-car sublists are two door and four door; the sports-car sublists are coupe and convertible. Each body-style sublist must have at least three entries, each of which is the make and model of a particular car that fits the category. The outer list must use uppercase Roman numerals, the middle lists must use uppercase letters, must be pink; for the midsize-car list, it must be blue; for the sports-car list, it must be red. All of the styles must be in a document style sheet.

Unit III

JavaScript-I

1. With an example, explain on focus event and java script.
2. Describe the approach to addressing XHTML elements using forms and elements.
3. Write an XHTML document which displays a form containing text elements to input register number, sub-code, marks in three tests and a button element. Also write java script code to compute average of two better tests on click of button and print average marks using alert.
4. What are the two ways in which an event handler can be associated with an event generated by a specific XHTML element in the DOM2 event model?
5. Describe the approach to addressing XHTML elements using forms and elements.
6. Write XHTML file and java script, scripts to sort a set of number in either ascending order or descending order. The sorting order is input from user which is either “ascending” or “descending”. The sorted numbers should be displayed with proper headings.
7. What are the different approaches to addressing XHTML elements? Describe with examples.
8. Explain the three phases of event processing in the DOM2 event model
9. Write a java script to compare two passwords.
10. Discuss the different approaches of XHTML element access in Javascript.
11. Explain, with an example, handling events from body elements using onload attribute.
12. Explain event handler connection for DOM2 event model.

Unit IV

JavaScript - II

1. With examples, explain absolute and relative positioning of elements in java script.
2. Write an XHTML document that contains three short paragraphs of text, stacked on top of each other, with only enough of each showing, so that mouse cursor can always be placed over some part of them. Write java script code so that when cursor is placed over the exposed part of any paragraph, it should rise to the top to become completely visible.
3. Explain the following, with an example each:
    a) Absolute positioning
    b) Dynamic content
    c) Element visibility
    d) Stacking elements
4. Write an XHTML document to display an image and three buttons. The buttons should be labeled simply 1, 2 and 3. When pressed, each button should change the content of the image to that of a different image.
5. Explain the difference types of positioning, with examples.
6. Write a java script that illustrates the dynamic stacking of images.
7. Write a java script which displays the message 'Hello, how are you??' when the mouse button is pressed no matter where it is on the screen.
8. What exactly is stored in the screen X and screen Y properties after a mouse click?
9. Describe all the differences between the three possible values of the position property.
10. Explain element visibility.
11. With an example of XHTML doc with java script, explain dynamic content.
12.

Unit-5

XML

1. What is the goal of XML?
2. What is the main deficiency of HTML?
3. What are the tow primary keys of validating XML parser
4. What is XML? And explain the syntax.
5. Explain XML document structure with an example

6. What is DTD? Explain with an example.
7. Explain about displaying raw XML documents
8. Explain XSLT processing
9. What are XML processors?
10. What is XML names space?
11. What is SOAP?
12. What are the four categories of complex types in XML schema
13. Bring out differences in Goals of XML and Goals of HTML.
14. Explain the parsing of XML documents.
15. What is the purpose of DTD and explain how to find errors in DTD before it is used?
16. Explain three types that can be used to describe data in an element declaration. What are four possible parts of an attribute declaration in DTD?
17. What is a XML Namespace? Explain the usage in brief.
18. What are the advantages of XML schemas over DTD's?
19. Explain the ultimate goals of Webservices. Describe three roles in Web Services.
20. What are the four categories of complex types in an XML Schema?
21. What is the purpose of DTD? Explain how elements, attributes are declared in DTD with an example.
22. Why would you use a CSS- style sheet for an XML documents?
23. Define the purpose of XSLT style sheet. How does an XSLT processor use an XSLT style sheet with an XML document?

Unit 6
PERL and CGI

1. Explain the origins and uses of Perl.
2. Explain the three categories of Perl variables.
3. With an example, explain string functions in Perl.
4. Give the syntax and examples of control statements in Perl.
5. Explain foreach statement.
6. Explain Hashes in Perl programming.
7. Discuss the various Pattern matching methods in Perl programming.
8. Explain with an example how files are handled in Perl.
9. Write a Perl program which creates a hash table contain country names keys and their capitals as values and perform the following:
   a. Print al pairs of values (country names and capital). b. Accept country name and print the capital of it.
10. In what three fundamental ways do Perl arrays differ from the arrays of other common high level languages? Give examples of each.
11. Write a Perl program to read three numbers a, b and c each on its own line from the key board and display the result of the expression 10 ab – ((c-1)/17.44).
12. What are the three essential categories of operations that are essential in web documents but that cannot be done with XHTML?

13. Briefly explain why a file should be read or written by a CGI program be locked against multiple simultaneous operations.

14.How cookies can be used in PERL

15. Describe MySQL and PERL with an example

16. Explain CGI.pm in detail

17. Explain CGI linkage with neat figure.

Unit VII

PHP

1.What are the two modes of the PHP processor?

2. What are the syntax and semantics of the include contruct?

3. How can a variable be tested to determine whether it is bound?

4. How can you specify to the PHP processor that you want uses of unbound variables to be reported?

5. How many bytes are used to store a character in PHP?

6. What is coercion?

7. What are the three ways the value of a variable can be explicitly converted to a specific type?

8. What does chop function do?

9. What keys are used when an array is created but no keys are specified?

10. Explain the actions of the implode and explode functions.

11. How can a variable used outside a function be accessed by the function? 12. How can the value of a form element be accessed by a PHP script?

13. What does an fopen function return if it fails?

14. How can a cookie be created in PHP script?

15. How can a script determine whether a particular cookie exists?

16. How can a variable be saved in a session?

17. How MySQL can be used in PHP. Describe with an example.

Unit 8

Ruby on Rails

1. What is one of the most common uses of Ruby?
2. What is the difference between the two kinds of string literals?
3. What does the string method replace do?
4. What values of a variable are considered true?
5. Describe what the for- in statement does.
6. What does the include ? method do?
7. What is the form of a hash literal?
8. When an access control violations for methods detected?
9. Explain what the each method does.
10. What is CGI.pm module?
11. What is a cookie?
12. For what is MVC an acronym?
13. What is generated with the generate controller script?
14. Why does a template file's name have the .rhtml extension?
15. How are simple form data gotten by a form-processing action method?
16. How are the model files for the tables of a MySQL database created?
17. What does the has-many directive indicate to Rails?
18. Describe how concatenation operator for array works.
19. What does the belongs to directive indicate to Rails?
20. What numeric operators in C and Java are missing in Ruby?
21. Describe briefly an MVC application.
22. Describe briefly the ORM used by Rails

Note: Refer previous question papers for more details.