



# HALDIA INSTITUTE OF TECHNOLOGY

(AN AUTONOMOUS INSTITUTION UNDER MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL)

**Paper Code: PEC-CS 801D**

**Paper Name: Web & Internet Technology**

*Time Allotted: 2 Hours*

*Full Marks: 70*

*The figures in the margin indicate full marks*

*Candidates are required to give their answers in their own words as far as practicable*

## **Group – A**

### **(Multiple Choice Type Questions)**

**1. Choose the correct alternatives from the followings:**

**30 x 1 = 30**

(i) Servers are computers that provide resources to other computers connected to a [CO 1]

- a) Client                      b) Mainframe                      c) Supercomputer                      d) Network

(ii) A program that is used to view websites is called a [CO 1]

- a) Browser                      b) Web viewer                      c) Spreadsheet                      d) Word processor

(iii) Which of the following is not a type of broadband internet connection? [CO 1]

- a) Satellite                      b) DSL                      c) Dial up                      d) Cable

(iv) A typical modern computer uses [CO 1]

- a) Valves                      b) LSI chips                      c) Vacuum tubes                      d) All of these

(v) What is the term for unsolicited Email? [CO 1]

- a) Spam                      b) Backbone                      c) Usenet                      d) News group

(vi) How many sizes of headers are available in HTML by default? [CO 1]

- a) 5                      b) 1                      c) 3                      d) 6

(vii) What is the smallest header in HTML by default? [CO 1]

- a) h1                      b) h6                      c) h2                      d) h4

(viii) Which of the following element is responsible for making the text bold in HTML? [CO 1]

- a) <pre>                      b) <a>                      c) <b>                      d) <br>

(ix) How to create an unordered list (a list with the list items in bullets) in HTML? [CO 1]

- a) <ul>                      b) <ol>                      c) <li>                      d) <i>

(x) How to insert an image in HTML? [CO 1]

- a) <img href = "jtp.png" />                      b) <img url = "jtp.png" />  
c) <img link = "jtp.png" />                      d) <img src = "jtp.png" />

(xi) <input> is - [CO 2]

- a) a format tag.                      b) an empty tag.                      c) All of the above                      d) None of the above

(xii) How to create a checkbox in HTML? [CO 1]

- a) <input type = "checkbox">                      b) <input type = "button">  
c) <checkbox>                      d) <input type = "check">

(xiii) Which of the following tag is used to define options in a drop-down selection list? [CO 1]

- a) <select>                      b) <list>                      c) <dropdown>                      d) <option>

(xiv) Which one of the following is the most powerful filter? [CO 1]

- a) awk                      b) grep                      c) sed                      d) perl

(xv) It is often more convenient to save perl program files with \_\_\_\_ extension. [CO 2]

- a) .gp                      b) .sh                      c) .awk                      d) .pl

(xvi) \_\_\_\_ function is used for removing the last character from the line. [CO 1]

- a) cut                      b) chop                      c) erase                      d) split

(xvii) If a variable is undefined, its value is \_\_\_\_ [CO 2]

- a) 0                      b) 1                      c) NULL                      d) garbage

(xviii) Which function is used by perl for displaying the length of a string? [CO 1]

a) string                      b) len                      c) split                      d) length

(xix) For extracting a substring, \_\_\_\_\_ function is used. [CO 2]

a) string                      b) index                      c) substr                      d) length

(xx) Which type of JavaScript language is \_\_\_\_\_ [CO 1]

a) Object-Oriented    b) Object-Based    c) Assembly-language    d) High-level

(xxi) Which one of the following also known as Conditional Expression: [CO 1]

a) Alternative to if-else    b) Switch statement    c) If-then-else statement    d) immediate if

(xxii) When interpreter encounters an empty statement, what it will do: [CO 1]

a) Shows a warning                      b) Prompts to complete the statement  
c) Throws an error                      d) Ignores the statements

(xxiii) Which is not valid data type in Javascript [CO 1]

a) Undefined                      b) Boolean                      c) float                      d) Number

(xxiv) Which type of language is Javascript [CO 1]

a) Programming                      b) Scripting                      c) Markup                      d) None of the above

(xxv) By which javascript code is used [CO 2]

a) Classes                      b) Methods/Functions                      c) RMI                      d) Events

(xxvi) Which tag is used to write the javascript code [CO 1]

a) <script>                      b) <sp>                      c) <javascript>                      d) <java>

(xxvii) Which of the following function of String object causes a string to be italic, as if it were in an <i> tag? [CO 1]

a) fontsize()                      b) fontcolor()                      c) fixed()                      d) italics()

(xxviii) What are the types of cookies? [CO 1]

a) Session cookies    b) Persistent cookies.    c) Dummy cookies.    d) Option A and B are correct.

[CO 2]

(xxix) \_\_\_\_\_ is the DataType return in IsPostBack property. [CO 1]

a) bit                      b) boolean                      c) int                      d) object

(xxx) When does Garbage collector run? [CO 1]

- a) When application is running low of memory      b) It runs random  
c) When application is running for more than 15 minutes      d) None of the above

**Group – B**  
**(Multiple Choice Type Questions)**

**2. Choose the correct alternatives from the followings:**

**10 x 2 = 20**

(i) Which are the common security restrictions in applets?

[CO 1]

- a) Applets can't load libraries or define native methods  
system property      c) Applets can play sounds      b) An applet can't read every  
d) Both A & B

(ii) What invokes immediately after the start() method and also any time the applet needs to repaint itself in the browser? [CO 1]

- a) stop()                  b) init()                  c) paint()                  d) destroy()

(iii) Which method is called only once during the run time of your applet? [CO 1]

- a) stop()                  b) paint()                  c) init()                  d) destroy()

(iv) Which is a special type of program that is embedded in the webpage to generate the dynamic content? [CO 1]

- a) Package                      b) Applet                      c) Browser                      d) None of the above

(v) Which class is used to create servers that listen for either local client or remote client programs? [CO 1]

- a) ServerSockets      b) httpServer      c) httpResponse      d) None of the above

(vi) A firewall need to be \_\_\_\_\_ so that it can be grow proportionally with the network that it protects. [CO 2]

- a) Robust                      b) Expensive                      c) Fast                      d) Scalable

(vii) A packet filter firewall filter at\_\_\_\_\_ [CO 2]

- a) Physical layer   b) Data link layer   c) Network layer or transport layer   d) Application layer

(viii) A proxy firewall filtering at\_\_\_\_\_. [CO 1]

- a) Physical layer      b) Data link layer      c) Application layer      d) Network layer

(ix) VOIP stands for \_\_\_\_\_ [CO 1]

- a) Voice over IP      b) Video over IP      c) Viruses over IP      d) Virtual over IP

(x) if firewall is installed at the point where the secure internal network and interested external network meet which is also now as \_\_\_\_\_. [CO 1]

- a) Chock point      b) Meeting point      c) Firewalls point      d) Secure point

### **Group – C**

#### **(Short Answer Type Questions)**

**3. Attempt any four from the followings:**

**4 x 5 = 20**

i) A) Why post office protocol and simple mail transfer protocols used in e-mail services? [CO 1]

B) How JavaScript is different than HTML? Write a program in JavaScript to find factorial of a number. [CO 1]

ii) A) How World Wide Web protocol defines domain and Sub domain, address resolution, DNS, Telnet, FTP, HTTP?

B) What do you mean by internet routing protocol as routing -Intra and Inter domain Routing, unicast and multicast Routing and moreover broadcast routing plays an important role in it? [CO 1]

iii) A) What is firewall? How it works? [CO 1]

B) What's the Difference Between a "Trojan Horse", a "Worm", and a "Virus"?

iv) Describe IPV4 with proper diagram (IP header with bits) [CO 2]

v) A) What are cookies and sessions? [CO 1]

B) Why session objective is considered more secure and advantageous than cookies? [CO 1]

vi) A) Differentiate between internet, intranet and extranet. [CO 2]

B) Describe IPV6 with proper diagram (IP header with bit counts). [CO 2]

**SANTANU KOLEY**

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Signature of the Paper Setter/Moderator

### **Answer Key:**

### **Group – A**

- |          |          |           |            |           |           |
|----------|----------|-----------|------------|-----------|-----------|
| 1. (i) d | (ii) a   | (iii) c   | (iv) b     | (v) a     | (vi) d    |
| (vii) b  | (viii) c | (ix) a    | (x) d      | (xi) b    | (xii) a   |
| (xiii) d | (xiv) d  | (xv) d    | (xvi) b    | (xvii) a  | (xviii) d |
| (xix) c  | (xx) b   | (xxi) d   | (xxii) d   | (xxiii) c | (xxiv) b  |
| (xxv) b  | (xxvi) a | (xxvii) d | (xxviii) d | (xxix) b  | (xxx) a   |

|                         |   |        |   |       |   |
|-------------------------|---|--------|---|-------|---|
| <b><u>Group – B</u></b> |   |        |   |       |   |
| <b><u>2.</u></b> (i)    | d | (ii)   | c | (iii) | c |
| (vii)                   | c | (viii) | c | (ix)  | a |
|                         |   |        |   | (iv)  | b |
|                         |   |        |   | (x)   | a |
|                         |   |        |   | (v)   | a |
|                         |   |        |   | (vi)  | b |

|                         |      |       |      |     |      |
|-------------------------|------|-------|------|-----|------|
| <b><u>Group – C</u></b> |      |       |      |     |      |
| <b><u>3.</u></b> (i)    | (ii) | (iii) | (iv) | (v) | (vi) |