



## HALDIA INSTITUTE OF TECHNOLOGY

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

**Paper Code: PEC-CS801D**

**Paper Name: Web & Internet Technology**

*Time Allotted: 3 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)

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

**15 x 1 = 15**

1. (i) Which software prevents the external access to a system? [CO5]  
a) Firewall                      b) Gateway                      c) Router                      d) Virus checker
- (ii) Which one of the following is the most common internet protocol? [CO1]  
a) HTML                      b) NetBEUI                      c) TCP/IP                      d) IPX/SPX
- (iii) The IP network 192.168.50.0 is to be divided into 10 equal sized subnets. Which of the following subnet masks can be used for the above requirement? [CO1]  
a) 255.243.240                      b) 255.255.0.0                      c) 255.255.0                      d) 255.255.255
- (iv) When the mail server sends mail to other mail servers it becomes \_\_\_\_ ? [CO2]  
a) SMTP client                      b) SMTP server                      c) Peer                      d) Master
- (v) <a> and </a> are the tags used for \_\_\_\_ [CO3]  
a) Adding image                      b) Aligning text  
c) Audio-voiced text                      d) Adding links to your page
- (vi) Which Of The Following Programs Support XML Or XML Applications? [CO3]  
a) Netscape 4.7                      b) Internet Explorer 5.5  
c) Internet Explorer 5.5                      d) Both A & B
- (vii) Which Language Is Case Sensitive? [CO3]  
a) XML                      b) HTML                      c) both a and b                      d) None
- (viii) Which element/tag defines a paragraph? [CO3]  
a) <p>                      b) <pre>                      c) <panel>                      d) none of the above
- (ix) In Schema Data Type Can Be Specified Using [CO3]  
a) Type                      b) DataType                      c) Dt:type                      d) Data:type
- (x) Which of the following is not a javascript framework? [CO3]  
a) Vue                      b) React                      c) Node                      d) Laravel
- (xi) The "let" and "var" are known as: [CO3]  
a) Prototypes                      b) Declaration statements                      c) Data Types                      d) Keywords
- (xii) This is a type of cyber attack that has a program running on your server to bypass the authorization. [CO4]  
a) DoS                      b) Phishing                      c) Backdoor                      d) Sniffing
- (xiii) The encryption technique that uses one message to hide another message is called. [CO5]  
a) MDA                      b) Hashing                      c) Steganography                      d) None of the above

(xiv) To perform tracking of an IP, Session Initiation Protocol (SIP), uses concept of [CO5]

- a) Termination      b) registration      c) translation      d) streaming

(xv) Session Initiation Protocol (SIP), has a mechanism that finds the [CO5]

- a) IP address      b) terminal      c) domain      d) way

### **Group – B**

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

**Attempt any three from the followings:**

**3 x 5 = 15**

2. A host has the IP address 198.22.45.173/26. What are the network address, broadcast address, and valid host addresses for the IP subnet of which the host is a member of? What is the subnet mask in dotted-decimal notation?

[CO1]

3. Define Form tag. Design a Registration page by using all Form controls.

[CO3,CO6]

4. What is PERL identifier? What are arrays in PERL?

[CO3]

5. How do you write a multi-threaded server in Java?

[CO4]

6. State the difference between threats and attacks.

[CO5]

### **Group – C**

#### **(Long Answer Type Questions)**

**Attempt any four from the followings:**

**4 x 10 = 40**

7. What is id FTP? How does FTP it work? Explain with proper diagram. [CO1]

5+5

8. Justify the Common Gateway Interface (CGI) with neat Diagram. [CO2]

10

9. Write a Java Script code to generate the current date in words format “Day, Month, Date, Year”. (Hint: Friday, December 18, 2015). Write a short note on Perl language elements.

7+3

[CO3,CO6]

10. What Are The Applets Life Cycle Methods? Explain Them? Can We Pass Parameters To An Applet From Html Page To An Applet? How?

[CO3]

5+5

11. What is TIME\_WAIT state in TCP protocol? When a socket connection does goes to TIME\_WAIT state? Differentiate passive attack from active attack with example. [CO1, CO5]

3+3+4

12. What is hard and soft focused crawling? Define Search Engine Optimization. [CO5]

5+5