**Enrollment No.....................................**

## Faculty of Engineering
### End Sem (Even) Examination May-2019
### CS3EW01/IT3EW01 Internet & Web Technology

Programme: B.Tech.      Branch/Specialisation: CSE/IT

**Duration: 3 Hrs.**      **Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

Q.1

i. The default connection type used by HTTP is    **1**
   (a) Persistent      (b) Non-persistent
   (c) Either (a) or (b)      (d) None of these

ii. SMTP uses the TCP port    **1**
   (a) 22      (b) 23
   (c) 24      (d) 25

iii. From which tag descriptive list starts?    **1**
   (a) <LL>      (b) <DD>
   (c) <DL>      (d) <DS>

iv. The type of a variable that is volatile in Java Script    **1**
   (a) Volatile variable      (b) Mutable variable
   (c) Immutable variable      (d) Dynamic variable

v. DTD's are    **1**
   (a) Ways to create templates for out does type
   (b) Document type declaration in XML
   (c) Part of Name spaces
   (d) None of these

vi. XSL is    **1**
   (a) An XML based language to create style sheets
   (b) A language which is not used in XML
   (c) Extensible solution language
   (d) Extended stylesheet language

vii. Which of the following code is used to set content type of a page to be serviced using servlet? **1**
(a) response.setContentType()
(b) request.setContentType()
(c) writer.setContentType()
(d) None of these

viii. Which one of the following PHP functions can be used to build a function that accepts any number of arguments? **1**
(a) func_get_argv()        (b) func_get_argc()
(c) get_argv()        (d) get_argc()

ix. Which of the following method can be used to read a multiple values with same name, for example check box selections? **1**
(a) request.getParameter()
(b) response.getParameter()
(c) request.getParameterValues()
(d) response.getParameterValues()

x. What are common methods for detecting the type of browser running on a client? **1**
(a) Use JavaScript to query for the userAgent header
(b) Use the window.addEventListener method
(c) Use the viewport <meta> tag
(d) All of these

Q.2   i. What is DNS? How does it function? **2**
ii. Write the basic structure of HTTP Request and Response Message Structure. **3**
iii. Explain the functions of the Web Browser and Server Communication. **5**
OR   iv. Explain Architecture of WWW in detail. **5**

Q.3   i. Define Document Object Model. **2**
ii. Describe HTML text formatting tags with examples. **8**
OR   iii. Write a Java Script program to find largest among 5 numbers. **8**

Q.4   i. Why XSLT is important for XML? **2**

ii. Write the any three rules for writing XML. **3**
iii. Define DTD. Explain the various types of DTD. **5**
OR   iv. Write note on XML Processing model with example. **5**

Q.5      Attempt any two:
i. Write a program in PHP to print Factorial of any number. **5**
ii. Write a program in PHP to find whether a number is Armstrong or not. **5**
iii. Briefly explain Life Cycle of Servlet. **5**

Q.6      Attempt any two:
i. Explain AngularJS boot process. **5**
ii. Explain lifecycle of a JSP. **5**
iii. Explain any five attributes of page directive? **5**

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## Marking Scheme
## CS3EW01/IT3EW01 Internet & Web Technology

Q.1  i.    The default connection type used by HTTP is                                              1
           (a) Persistent
     ii.   SMTP uses the TCP port                                                                   1
           (d) 25
     iii.  From which tag descriptive list starts?                                                 1
           (c) <DL>
     iv.   The type of a variable that is volatile in Java Script                                   1
           (b) Mutable variable
     v.    DTD's are                                                                                1
           (a) Ways to create templates for out does type
     vi.   XSL is                                                                                   1
           (a) An XML based language to create style sheets
     vii.  Which of the following code is used to set content type of a page to be                 1
           serviced using servlet?
           (a) response.setContentType()
     viii. Which one of the following PHP functions can be used to build a                         1
           function that accepts any number of arguments?
           (b) func_get_argc()
     ix.   Which of the following method can be used to read a multiple values                     1
           with same name, for example check box selections?
           (c) request.getParameterValues()
     x.    What are common methods for detecting the type of browser running                       1
           on a client?
           (a) Use JavaScript to query for the userAgent header


Q.2  i.    Definition DNS                         1 mark                    2
           Working                                1 mark
     ii.   Structure of HTTP Request              1.5 marks                 3
           Response Message Structure             1.5 marks
     iii.  Functions of the Web Browser           3 marks                   5
           Server Communication.                  2 marks
OR   iv.   Architecture of WWW                                              5
           Diagram                                2 marks
           Explanation                            3 marks

Q.3  i.    Definition Document Object Model.                                2
     ii.   HTML text formatting tags with examples.                        8
           Any four tags 2 marks for each        (2 marks * 4)
OR   iii.  Java Script program to find largest among 5 numbers              8

Q.4  i.    XSLT is important for XML                                        2
     ii.   Any three rules for writing XML.                                3
           1 mark for each rule                  (1 mark * 3)
     iii.  Definition of DTD                      1 mark                    5
           Types of DTD.                          4 marks
OR   iv.   XML Processing model                   3 marks                   5
           Example                                2 marks

Q.5        Attempt any two:
     i.    Program in PHP to print Factorial of any number.                 5
     ii.   Program in PHP to find whether a number is Armstrong or not.     5
     iii.  Life Cycle of Servlet.                                           5
           Diagram                                2.5 marks
           Description                            2.5 marks

Q.6        Attempt any two:
     i.    AngularJS boot process.                                         5
           Initialize                             1.5 marks
           Execution                              2 marks
           Calling                                1.5 marks
     ii.   Lifecycle of a JSP                                              5
           Diagram                                2 marks
           Explanation                            3 marks
     iii.  Any five attributes of page directive                          5
           1 mark for each attributes            (1 mark * 5)

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