

Total number of printed pages-4

44 (Sem-4) AWT (SE-4034) N

2022

ADVANCED WEB TECHNOLOGY

Paper : BCA-SE-4034

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. 1×10=10
- (a) You have one IP 172.16.0.3. In which layer this IP works ?
 - (b) Which port is used by telnet service ?
 - (c) ARP resolves what ? Address or IP.
 - (d) Web server is state-less or state-full server.
 - (e) What is the purpose of TTL filed in IP datagram ?
 - (f) What would be the colors for the following hexadecimal values ?
#00FF00 and #0000FF.

Contd.

(g) What is the output of the following JavaScript ?

```
<script type="text/javascript">  
var my_date=new Date("October 12, 1988")  
document. write(my_date.getMonth());  
</script>
```

(h) What is document object model (DOM)?

- a) Convention for representing and interacting with objects in html documents
- b) Application programming interface
- c) Hierarchy of objects in JSP
- d) None of the mentioned

(i) AJAX stands for

- a) asynchronous JavaScript and xml
- b) advanced JSP and xml
- c) asynchronous JSP and xml
- d) advanced JavaScript and xml

(j) What is the meaning of Error code 404 displayed in web browser ?

2.

- (a) What is the use of “= = =” operator in JavaScript ?
- (b) What is JDBC ? Why it is required ?
- (c) What is the difference between “executeQuery” and “executeUpdate” command used by statement object in Java server pages ?
- (d) What is JavaBean Class ?
- (e) What are the advantages of using AJAX in webpage ?

3.

- (a) Discuss how Document Object Model can be used to change HTML Attributes ? 3
- (b) What is HTML GET and POST method ? Explain with example. 3
- (c) Discuss the syntax with example for writing a loop in JavaScript. 3
- (d) Write a JavaScript code to generate random number within a user defined range. 3
- (e) Explain different scripting elements of Java Server pages with example. 3

- (f) In HTML table how we can merge rows and columns? Discuss with example. 2
- (g) "XHTML is a stricter and cleaner version of HTML." Do you agree with this comment? Justify your answer. 3
4. (a) Discuss *any four* characteristics of a client server system. 2
- (b) Discuss the syntax for writing XML with example. 4
- (c) Discuss how a session can be managed in Java Server Page. 4
5. (a) Discuss the uses and syntax of the following JSP Standard Actions: **(any two)** 2.5+2.5=5
- (i) <jsp:include>
- (ii) <jsp:forward>
- (iii) <jsp:body>
- (b) Discuss the syntax of writing function in PHP with example. 3+2=5
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