

Total No. of Questions: 6

Total No. of Printed Pages: 2

Enrollment No.....



Faculty of Engineering / Science

End Sem Examination May-2024

CS3EW04 / BC3EL04 Internet & Web Technology

Programme: B.Tech. /B.Sc.

Branch/Specialisation: All

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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Which layer of the TCP/IP model is responsible for logical addressing and routing? **1**
(a) Network access layer (b) Internet layer
(c) Transport layer (d) Application layer
- ii. Which HTTP method is used for sending data to the server to create or update a resource? **1**
(a) GET (b) POST (c) PUT (d) DELETE
- iii. Which attribute is used to define inline styles in HTML? **1**
(a) style (b) class (c) id (d) format
- iv. What keyword is used to declare variables in JavaScript? **1**
(a) var (b) let (c) const (d) All of these
- v. What does CDATA stand for in XML? **1**
(a) Character data (b) Cascading data
(c) Controlled data (d) Centralized data
- vi. What does XSL stand for? **1**
(a) eXecutable Style Language (b) eXtensible Style Language
(c) eXecution Style Language (d) eXperimental Style Language
- vii. What does the "include" function do in PHP? **1**
(a) It includes and evaluates a specified file.
(b) It includes and echoes a specified file.
(c) It includes and executes a specified file.
(d) It includes and prints a specified file
- viii. Which of the following is a valid way to comment out a single line in PHP? **1**
(a) // This is a comment (b) <!-- This is a comment -->
(c) /* This is a comment */ (d) <!--- This is a comment --->

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- ix. Which JSP implicit object represents the current HTTP request? **1**
(a) request (b) response (c) session (d) out
- x. Which component is responsible for receiving input from the user and updating the Model in MVC? **1**
(a) Model (b) View (c) Controller (d) None of these
- Q.2 i. What is HTTP? Explain its utility and the various methods used by HTTP. **4**
ii. Explain three tier web architecture with suitable diagram. **6**
OR iii. Explain the SMTP and POP3. **6**
- Q.3 i. List out the following HTML tags and explain with suitable examples: anchor, image, frame and table tags. **4**
ii. Write a program in javascript to convert height from centimetres to inches and vice-versa. **6**
OR iii. Explain document object model with suitable examples and code. **6**
- Q.4 i. Discuss the difference between HTML and XHTML with respect to elements. **4**
ii. What is XML schema? State its purpose and its advantages over DTD. **6**
OR iii. Briefly explain XSL transformation with an example of script. **6**
- Q.5 i. Explain the lifecycle of servlet. **4**
ii. Discuss the following with reference to PHP with suitable examples: (a) Function (b) Array **6**
OR iii. Write a PHP script which takes the user name, password and email values from user and checks whether the user has filled the textboxes or not. Also, check the email field whether it is incorrect format or not. **6**
- Q.6 Attempt any two: **5**
i. How do you access a database from JSP page? Explain with an example. **5**
ii. Explain JSP session tracking approaches in detail. **5**
iii. With suitable examples the different looping statements used in JSP programs. **5**

P.T.O.

Scheme of Marking

Internet and web technology-CS3EW04(T)-BC3EL05

Q.1	i)	Which layer of the TCP/IP model is responsible for logical addressing and routing?	1
	b)	Internet Layer	
	ii)	Which HTTP method is used for sending data to the server to create or update a resource?	1
	b)	POST	
	iii)	Which attribute is used to define inline styles in HTML?	1
	a)	style	
	iv)	What keyword is used to declare variables in JavaScript?	1
	d)	all of the above	
	v)	What does CDATA stand for in XML?	1
	a)	Character Data	
	vi)	What does XSL stand for?	1
	b)	eXtensible Style Language	
	vii)	What does the "include" function do in PHP?	1
	a)	It includes and evaluates a specified file.	
	viii)	Which of the following is a valid way to comment out a single line in PHP?	1
	a)	// This is a comment	
	ix)	Which JSP implicit object represents the current HTTP request?	1
	a)	request	
	x)	Which component is responsible for receiving input from the user and updating the Model in MVC?	1
	c)	Controller	
Q.2	i.	What is HTTP? (1 marks) Explain its utility and the various methods used by HTTP.(3 marks)	4
	ii.	Explain three tier web architecture .(3 marks)with suitable diagram. .(3 marks)	6
OR	iii.	Explain the SMTP .(3 marks) and POP3.(3 marks).	6
Q.3	i.	List out the following HTML tags and explain with suitable examples: anchor, image, frame and table tags.	4
	ii.	Write a program in javascript to convert height from centimetres to inches and vice-versa. .(3 marks each)	6
OR	iii.	Explain Document Object Model with suitable examples.(3 marks) and code .(3 marks).	6
Q.4	i.	Discuss the difference between HTML and XHTML with respect	4

		to elements.(Atleast 4 difference 1 marks each)	
	ii.	What is XML schema? .(3 marks)State its purpose and its advantages over DTD. .(3 marks)	6
OR	iii.	Briefly explain XSL transformation.(3 marks) with an example of script. .(3 marks)	6
Q.5	i.	Explain the lifecycle of servlet.	4
	ii.	Discuss the following with reference to PHP with suitable examples: i) Function .(3 marks) ii) Array .(3 marks)	6
OR	iii.	Write a PHP script which takes the user name, password and email values from user and checks whether the user has filled the textboxes or not. Also, check the email field whether it is incorrect format or not.	6
Q.6		Attempt any two:	
	i.	How do you access a database from JSP page? .(2.5 marks) Explain with an example. .(2.5 marks)	5
	ii.	Explain JSP session tracking approaches in detail.	5
	iii.	With suitable examples the different looping statements used in JSP programs.	5
