Code No. : 16601

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
B.E. (IT.: CBCS) VI-Semester Main & Backlog Examinations, May-2019

Web Technologies

Time: **3** hours

Max. Marks: **70**

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Q.No.	Stem of the question	M	L	CO	PO
	Part-A (10 × 2 = 20 Marks)				
1.	In the development of a website, explain the appropriate usage of an external style sheet and an internal style sheet.	2	2	1	1
2.	Write the Javascript code for displaying the number of <P> tags in an HTML document?	2	3	1	2
3.	What are similar and dissimilar features of Twitter Bootstrap and Zurb Foundation?	2	1	2	1
4.	What is meant by "mobile first" front end development frameworks? Give two examples.	2	2	3	1
5.	What is the output of the following piece of code? > a = [(2,4), (1,2), (3,9)] > a.sort() > a Explain the data structure represented by 'a' in Python and the reason for the output.	2	3	3	2
6.	What is a Set data structure in Python? Classify the following either as the correct way or incorrect ways of creating set. a) set ([[1,2], [3,4]]) b) set ([1,2,2,3,4]) c) set ((1,2,3,4)) d) {1,2,3,4}	2	2	3	1
7.	How to create a JSP scriptlet? Provide an example.	2	1	4	1
8.	An HTTP/1.1 Request Header contains the following lines. connection: keep-alive keep-alive: 300 What is the purpose of these fields in HTTP Client Server communication?	2	3	4	2
9.	What is the difference between "&&" operator with "and" operator in PHP?	2	2	5	1
10.	List any four internal variables used in PHP.	2	2	5	1
	Part-B (5 ×10 = 50 Marks)				
11. a)	What is the difference between inline event model and traditional event model in Javascript? Which model is preferred? Why?	6	2	1	1
b)	An HTML Form consists of inputs for User Name, Password and Phone number. Analyze the role of client side validation and server-side validation for the submission of this data.	4	2	1	2

			M	L	CO	PO
12.	a)	What is Bootstrap grid system? Describe the working principles of Bootstrap Grid system.	6	1	2	1
	b)	Develop a simple interface of adding two numbers given in edit boxes using Zurb foundation basic controls.	4	3	2	3
13.	a)	How to perform encoding and decoding in python. Write a simple application of storing password obtained from login page and check the authentication of password?	6	3	3	1
	b)	Explain serialization and its importance for web based client server applications. What are the advantages of Json and pickle based serialization?	4	4	3	1
14.	a)	What are JSP Implicit Objects? Explain briefly each one with example.	6	2	4	1
	b)	Write a code for Java Servlet for session tracking. User submits a "score" information and the same is to be updated by the Servlet and return the current score to the user. Session is created when the first score is submitted and is terminated when the "score" submitted is "-1".	4	3	4	2
15.	a)	Write briefly about any three functions for different ways of accessing data in a table of MySQL database from PHP. Provide examples for each of them.	6	1	5	1
	b)	PHP method "setcookie" takes "name", "value", "expire", "path", "domain", "secure", "httponly" as arguments. What is the importance of each of these arguments and their effect on cookie based session tracking?	4	4	5	1
16.	a)	Create an HTML Form for submission of Student Attendance in five subjects. Write an associated javascript for filling the average of attendance for the student in another edit box.	6	5	1	3
	b)	What is a Model in Backbone.js? Explain the role of Model.get() and Model.set() methods.	4	1	2	1
17.		Answer any *two* of the following:				
	a)	Explain python's mechanism for pattern matching with regular expressions using re.match(), re.search(), re.findall() methods. Provide examples using the current question as the pattern text.	5	3	3	1
	b)	Write about the life cycle of Java Servlet.	5	1	4	1
	c)	Discuss about the semantics of parameter passing to a function in PHP. How to work with global variables in PHP?	5	2	5	1

M: Marks; L: Bloom's Taxonomy Level; CO: Course Outcome; PO: Programme Outcome

S. No.	Criteria for questions	Percentage
1	Fundamental knowledge (Level-1 & 2)	59%
2	Knowledge on application and analysis (Level-3 & 4)	41%
3	*Critical thinking and ability to design (Level-5 & 6) (*wherever applicable)	

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