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Master of Computer Applications

MCAC205: Web Technologies

Unique Paper Code: 223421205

Semester II

August 2023

Year of Admission: 2022

Time: Three Hours

Max. Marks: 70

Instructions: Attempt Part-A and Part-B separately.

PART-A (Objective Type Questions)

Each question from 1-12 carries 1.5 marks and 13-14 carries 1 mark.

Each question from 1-12 curites 1.5 marks and						
1. Which of the belo	ow command wil	ll show all th	e modules inst	alled locally?		
a) Npm ls	b) Npm ls	s -g	c) Npm list	d) Noc	de ls -g	
2. How do we return	n a path string fro	om the given	path object in	Node.js?		
a) path.get()	b) path.set()	c) p	oath.format()	d)path	n.return()	
3. Which type of application does not prefer the backend as node.js?						
a) Single Page	b) JSON API	s based	c) CPU intensi	ve d) Data-I	ntensive	
4. All of the following a) Hackers	ing are examples b) Spam	of real secu c) Virus		y risks. EXCEP'	Т:	
5. How modules in a) Expose	Node.js can be c	connected from		nent to another?		
6. Which fs module	in Node.js is us	ed to get the	file information	on?		
a) fs.open(path,	flags[, mode], ca	allback)	b) f	s.stat(path, callb	back)	
c) fs.readFile(path, flags[, mode], callback) d) None of the above						
7. A Proxy server i	s used for which	of the follow				
	curity against un					
b) To process cli	ient requests for	web pages				
	ient requests for	database acc	ess			
d) To provide To	CP/IP					

8. Firewalls are used to protect against b) virus Attacks a) unauthorized Attacks d) Fire Attacks c) Data Driven Attacks 9. The digital signature is: a) A form of security for electronic records b) Copy d) Area c) Task 10. function fun() int y=10; char z=10; if(y.tostring()===z)return true; else return false: a) logical error b) false c) runtime error d) true 11. <input> is a) format tag b) an empty tag c) All of the above d) None of the above 12. What will be the output of the following code? <script type="text/javascript"> a = 8 + "8"; document.write(a); </script> 13. The external JavaScript file must contain <script> tag. a) True b) False 14. Cyber criminals only target large companies. a) True b) False

Instructions: Attempt all parts of a question together.

- 1 a. What are Cascading Style Sheets? Illustrate the concept of an internal style 3 sheets with examples.
 - b. Write a JavaScript program to find the addition and multiplication of a given 7 number using onClick to change the content of other fields. For example:

Field12	Field24	Field36
		sum multiply
		Result12

2. a. With the help of an example, explain the structure of an XML document.

b. Write a JavaScript code to validate the given form details.

Name*
Address

Zip Code*

Country*

Gender*

Please select...

Male Female

Preferences*

Phone*

Email*

password (6-8 characters)*

Verify password*

SEND CLEAR

6

- 3. a. Write a JavaScript function to accept a numeric array as input parameter and display the largest number in the array. Also call the function in an HTML page.
 - b. Write HTML code for the following table:

Time/D	ay	9:00 am to 1:00 pm	2:00 pm to 5:00	
Mon to Fri	Web Technologies	Theory Class	2:00 pm to 5:00 pm Lab Class Lab No- 1	
	CS Department	Room No 114		
Sat	Web Technologies	Extra-curricular activity		
	CS Department			

4. a. Write a code to create an HTTP server that listens on port 3000 and returns the text "Hello, World!" when accessed.
b. Write a code to handle file uploads in a Node.js application. Allow users to upload files, validate the file type and size, and save the file to the server or cloud storage.
5. a. What is the purpose of the core modules in node.JS? Explain with examples.
b. How would you connect a MongoDB/MySQL database to Node.js?
d. What is the primary reason for using the event-based model in Node.js?
4
c. What is the primary reason for using the event-based model in Node.js?