DevOps (DEVELOPMENT OPERATIONS) THEORY PAPER

Tibetan Computer Resource Center, Department of Finance, CTA.

	Duration: 1 hour	Maximum Marks: 30
Α.	Multiple choice questions. Circle the correct answer. 23 Marks	
1.		
	a. <&> &	
	b. php ?	
	c. php ? d. <script> </script>	
	u. \script>\forage5cript>	
2.	All variables in PHP start with which symbol?	
	a. \$	
	b. !	
	c. &	
3.	The PHP syntax is most similar to:	
	a. JavaScript	
	b. VBScript	
	c. Perl and C	
4.	How do you create an array in PHP?	
	a. \$cars = "Volvo", "BMW", "Toyota";	
	<pre>b. \$cars = array["Volvo", "BMW", "Toyota"];</pre>	
	<pre>c. \$cars = array("Volvo", "BMW", "Toyota");</pre>	
5.	Which operator is used to check if two values are equal and of the sa	me data type?
	a. =	
	b. !=	
	c. ===	
	d. ==	
6.	Which function name is the correct function to get the length of the	string "Hello World!" in the
	following?	
	echo ("Hello World!");	
	a. strlength	
	b. stringlength	
	c. strlen	
	d. lenstr	
7.	Fill in with the correct function name and its variables to replace the	word "World" with the
, .	word "Tashi".	
	\$oldtxt = "Hello World";	
	\$newtxt =, \$old	txt);
	a. \$newtxt = str_replace("World", "Tashi", \$oldtxt);	4.
	b. \$newtxt = string rep("Tashi", "World", \$oldtxt);	
	c. \$newtxt = str_replace("Tashi", "World", \$oldtxt;	
	<pre>d. \$newtxt = string rep("World", "Tashi", \$oldtxt);</pre>	

- 8. Which MySQL statement is used to update data in a database?
 - a. INSERT
 - b. MODIFY
 - c. SAVE
 - d. UPDATE
- 9. Which MySQL statement is used to delete data from a database?
 - a. COLLAPSE
 - b. REMOVE
 - c. DELETE
- 10. With MySQL, how do you select all the columns from a table named "Persons"?
 - a. SELECT *.Persons
 - b. SELECT Persons
 - c. SELECT [all] FROM Persons
 - d. SELECT * FROM Persons
- 11. With MySQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" is "Peter"?
 - a. SELECT [all] FROM Persons WHERE FirstName LIKE "Peter";
 - b. SELECT * FROM Persons WHERE FirstName = "Peter";
 - c. SELECT [all] FROM Persons WHERE FirstName EQUAL "Peter";
- 12. The OR operator displays a record if ANY conditions listed are true. The AND operator displays a record if ALL of the conditions listed are true
 - a. TRUE
 - b. FALSE
- 13. With MySQL, how do you select all the records from a table named "Persons" where the "FirstName" is "Peter" and the "LastName" is "Jackson"?
 - a. SELECT * FROM Persons WHERE FirstName<>'Peter' AND LastName<>'Jackson';
 - b. SELECT * FROM Persons WHERE FirstName='Peter' AND LastName='Jackson';
 - c. SELECT FirstName='Peter', LastName='Jackson' FROM Persons;
- 14. The NOT NULL constraint enforces a column to not accept NULL values.
 - a. TRUE
 - b. FALSE
- 15. Which database is required by WordPress?
 - a. MySQL
 - b. MongoDB
 - c. RDB
 - d. None of these
- 16. What is the purpose of WordPress taxonomy?
 - a. To classify website content into categorie: and tags
 - b. To optimize a website for search engines
 - c. To provide website security features
 - d. To customize website design

- 17. What is the default post Category for WordPress?
 - a. The first category added to WordPress
 - b. Uncategorized
 - c. No category
 - d. None of these
- 18. What is the purpose of the WordPress REST API?
 - a. To enable communication between WordPress sites and external applications
 - b. To optimize a website for search engines
 - c. To provide website security features
 - d. To customize website design
- 19. What is a child theme in WordPress?
 - a. A theme that inherits the design and functionality of another theme
 - b. A type of plugin
 - c. A template for a specific page or post
 - d. A script that runs in the background of a website
- 20. What is the purpose of the WordPress loop?
 - a. To display posts and pages on a website
 - b. To create custom post types
 - c. To optimize website performance
 - d. To create website backups
- 21. What is a widget in WordPress?
 - a. The element that adds a new feature to the theme
 - b. New theme type
 - c. Editor of a WordPress theme
 - d. All of these
- 22. What is the command to check the version of the Ubuntu Server version?
 - a. ubuntu -version
 - b. ubuntu -v
 - c. Isb release -a
- 23. Which is the correct command to ssh into the server with IP "172.28.20.4", port number "8888", and username as "tcrc"?
 - a. ssh -p 8888 tcrc@172.28.20.4
 - b. ssh -port 8888 tcrc@172.28.20.4
 - c. ssh -port 8888 -u tcrc -host
- B. Subjective Question. Answer one of the two questions. 7 marks

What is the main difference between WordPress posts and pages?

Or

Explain the purpose of a child theme.

DevOps (DEVELOPMENT OPERATIONS) PRACTICAL PAPER

Tibetan Computer Resource Center, Department of Finance, CTA.

Duration: 2 hour Maximum Marks: 70

- 1. Set up a local web server for the WordPress Site. Use any of the preferred local web server tools. XAMPP, MAMP, WAMP, or any other. **5 Marks**
- 2. Install the Latest WordPress and Set Up a Basic Site. 10 Marks
- 3. Create, install, and activate a Child Theme using any default theme. 20 Marks
 - a. Customize the Child theme.
 - Design a basic website layout. The body or website content layout should contain two columns. Use Lorem Ipsum text to create content. There should be at least 4 Pages and 5 Posts.
- 4. Install and configure the necessary plugins required to build the website. 10 Marks
- 5. Create a contact form with the following fields. Use any of the preferred Form plugins. **15 Marks**
 - a. Name, Email, Date of Birth, and Phone number.
 - b. Configure the form such that when a user submits a form, all the data from the submitted form is sent to this e-mail address: tcrcwebdb@tibet.net
- 6. Create a Custom Post Type and name it "CTA". 5 Marks
- 7. Ensure the website's security. Follow the best practices. 5 Marks