

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

Online End Semester Examination, May 2021

Course Name: Geospatial Programming

Semester: VI

Programme Name: B. Tech, GIE

Time: 03 hrs

Course Code: PEGS 3023

Max. Marks: 100

SECTION A (30 M)

1. Each question will carry 5 Marks

2. Instruction: This section comprises MCQ and T/F only

S.No.	Questions	Marks	CO
Q 1	<p>A In JavaScript, the output of expression; var x = "GSE" +20+21</p> <p>I. GSE+31</p> <p>II. GSE31</p> <p>III. GSE2021</p> <p>IV. 31GSE</p>	05 (5x1)	CO3
	<p>B Create a variable called x, assign the value 10 to it in JavaScript.</p> <p>I. x= 10</p> <p>II. x=10;</p> <p>III. var x = 10;</p>		
	<p>C What is the correct way to create a function in Python?</p> <p>I. def myFunction():</p> <p>II. create myFunction():</p> <p>III. function myfunction():</p>		
	<p>D Which one is composite data type?</p> <p>I. Numbers</p> <p>II. Strings</p> <p>III. Boolean</p> <p>IV. Arrays</p>		
	<p>E In JavaScripting, x=10; y=x++ and x = 10; z= ++x, values of y and z are</p> <p>I. 10 and 11 respectively</p> <p>II. 11 and 11 respectively</p> <p>III. 11 and 10 respectively</p> <p>IV. 10 and 10 respectively</p>		
Q 2	<p>A Which of these collections defines a LIST in python?</p> <p>I. ["apple", "banana", "cherry"]</p> <p>II. {"apple", "banana", "cherry"}</p> <p>III. {"name": "apple", "color": "green"}</p>	05 (5x1)	CO1

	<p>B How do you start writing an IF statement in Python?</p> <ol style="list-style-type: none"> I. if x > y: II. if (x > y) III. if x > y then: <hr/> <p>C How do you start writing a while loop in Python?</p> <ol style="list-style-type: none"> I. while x > y: II. while x > y { III. while (x > y) IV. x > y while { <hr/> <p>D Which statement is used to stop a loop in python?</p> <ol style="list-style-type: none"> I. break II. exit III. stop IV. return <hr/> <p>E JavaScript can</p> <ol style="list-style-type: none"> I. Change HTML Content II. Change HTML Attribute Values III. Hide HTML Elements IV. Do all above 		
Q 3	<p>Write True/ False</p> <ol style="list-style-type: none"> i) In web services, WPS stands for ‘word professional services’ (T/F) ii) PHP is server based scripting language (T/F) iii) JavaScript is server based language (T/F) iv) PostgreSQL is object oriented database system (T/F) v) JavaScript and Java are same (T/F) 	05 (5x1)	CO1
Q 4	<p>A Which one is case sensitive in PHP</p> <ol style="list-style-type: none"> I. keywords II. variables III. classes IV. functions <hr/> <p>B How to write an IF statement in JavaScript?</p> <ol style="list-style-type: none"> I. if (i == 5) II. if i = 5 III. if i = 5 then IV. if i == 5 then <hr/> <p>C How to write an IF statement for executing some code if "i" is NOT equal to 5?</p> <ol style="list-style-type: none"> I. if i != 5: II. if i = 5 III. if i != 5 then IV. if (i != 5) <hr/> <p>D How does a FOR loop start in JavaScript?</p> <ol style="list-style-type: none"> I. for (i = 0; i <= 5; i++) II. for i = 1 to 5 III. for (i = 0; i <= 5) IV. for (i <= 5; i++) 	05 (5x1)	CO2

	<p>E What is the correct way to write a JavaScript array?</p> <ol style="list-style-type: none"> I. <code>var colors = ["red", "green", "blue"]</code> II. <code>var colors = "red", "green", "blue"</code> III. <code>var colors = 1 = ("red"), 2 = ("green"), 3 = ("blue")</code> IV. <code>var colors = (1:"red", 2:"green", 3:"blue")</code> 		
Q 5	<p>A Google map is example of thin client architecture</p> <ol style="list-style-type: none"> I. False II. True <hr/> <p>B Which function is use to removes all the elements from the list</p> <ol style="list-style-type: none"> I. <code>append()</code> II. <code>clear()</code> III. <code>remove()</code> IV. <code>sort()</code> <hr/> <p>C PHP server scripts are surrounded by which delimiters?</p> <ol style="list-style-type: none"> I. <code><?php>...</?></code> II. <code><?php...?></code> III. <code><script>...</script></code> <hr/> <p>D Which statement is not correct about 'Tuple'</p> <ol style="list-style-type: none"> I. Items are ordered II. Items are changeable III. Duplicating of items are allowed <hr/> <p>E What is the correct way to add 1 to the \$count variable?</p> <ol style="list-style-type: none"> I. <code>count++;</code> II. <code>++count</code> III. <code>\$count++;</code> IV. <code>\$count =+1</code> 	05 (5x1)	CO2
Q6	<p>A Which one of these variables has an illegal name?</p> <ol style="list-style-type: none"> I. <code>\$my-Var</code> II. <code>\$my_Var</code> III. <code>\$myVar</code> <hr/> <p>B How do you create an array in PHP?</p> <ol style="list-style-type: none"> I. <code>\$progs = array["gse", "gie", "ape"];</code> II. <code>\$progs = array("gse", "gie", "ape");</code> III. <code>\$progs = "gse", "gie", "ape";</code> <hr/> <p>C How do you insert COMMENTS in Python code?</p> <ol style="list-style-type: none"> I. <code>#This is a comment</code> II. <code>/*This is a comment*/</code> III. <code>//This is a comment</code> <hr/> <p>D Which operator is not a comparison operator?</p> <ol style="list-style-type: none"> I. <code>==</code> II. <code>>=</code> III. <code><</code> IV. <code>=</code> <hr/> <p>E How do you start writing a 'for' loop in Python?</p> <ol style="list-style-type: none"> I. <code>for x in y:</code> II. <code>for x > y:</code> III. <code>for each x in y:</code> 	05 (5x1)	CO2

SECTION B (50 M)

1. Each question will carry 10 Marks

2. Instruction: Write short note

Q 7	Evaluate a basic concept of Geoprocessing tools with example	10	CO4
Q 8	Discuss the various component of Web GIS with brief overview of data server and web server	10	CO4
Q 9	Explain the terms, WMS, WPS, WCS, WFS, Restful web services	10	CO1
Q 10	Demonstrate the basic concept of Object oriented Programming language with example from Python programming language	10	CO1
Q 11	Give an overview of client based scripting language <p style="text-align: center;">OR</p> Evaluate the merits/demerits of client based scripting language over server based scripting language	10	CO3

Section C (20 Marks)

1. Each question will carry 20 Marks

2. Instruction: Write long answer

Q 12	Explain in Detail on MySQL database structure with example. How MySQL is different from PostgreSQL? <p style="text-align: center;">OR</p> Demonstrate the role of Geospatial programming in Geo-Informatics Engineering. How databases have been managed in WEB GIS?	20	CO4
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