Name:						
Enroln	nent No					
		UNIVERSITY OF PETROLEUM AND ENERGY STUDIES				
		Online End Semester Examination, December 2020				
Course	Name		Π			
	Course Name: Geospatial ProgrammingSemester: IIProgramme Name: B. Tech, GIETime: 03 hrs					
Course	s: 100					
course			. 100			
		SECTION A (30 M)				
1.	Each q	uestion will carry 5 Marks				
2.	Instruc	ction: This section comprises MCQ and T/F only				
S.No.	Ques	tions	Marks	СО		
Q 1	A	What is a correct syntax to output "Hello World" in Python?				
		I. print("Hello World")				
		II. echo("Hello World");				
		III. prints("Hello World")				
		IV. echo "Hello World"	_			
	B	Which one is NOT a legal variable name?				
		Imyvar				
		II. my-var				
		III. Myvar				
	<u> </u>	IV. my_var	_			
	C	What is the correct way to create a function in Python?				
		I. def myFunction(): II. create myFunction():	05	CO3		
		II. create myFunction():III. function myfunction():	(5x1)	COS		
	D	Which method can be used to remove any whitespace from both the beginning	-			
		and the end of a string?				
		I. strip()				
		II. trim()				
		III. ptrim()				
		IV. len()				
	E	Which method can be used to return a string in upper case letters in python?	-			
		I. upper()				
		II. toUpperCase()				
		III. upperCase()				
		IV. uppercase()				
Q 2	A	Which of these collections defines a LIST in python?				
		I. ["apple", "banana", "cherry"]	05	C01		
		II. {"apple", "banana", "cherry"}	05 (5x1)			
		III. {"name": "apple", "color": "green"}	(5x1)			

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Q 3	Write True/ Falsei)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)Google-map is example of 'Thin client architecture (T/F)	05 (5x1)	CO1
Q 4	A How do you create a function in JavaScript? I. function:myFunction() III. function = myFunction() B How to write an IF statement in JavaScript? I. if (i == 5) III. if i = 5 III. if i = 5 III. if i = 5 then IV. if i == 5 then C How to write an IF statement for executing some code if "i" is NOT equal to 5? I. if (i != 5) II. if i =! 5 then IV. if (i != 5) II. if i <= 15 then	05 (5x1) 	CO2

	E	What is the correct way to write a JavaScript array?		
		I. var colors = ["red", "green", "blue"]		
		II. var colors = "red", "green", "blue"		
i l		III. var colors = $1 = ("red"), 2 = ("green"), 3 = ("blue")$		
		IV. var colors = (1:"red", 2:"green", 3:"blue")		
Q 5	А	JavaScript is the same as Java.	_	
		I. False		
		II. True		
	В	How do you declare a JavaScript variable?	—	
		I. var carName;		
		II. variable carName;		
		III. v carName;		
	С	PHP server scripts are surrounded by delimiters, which?	—	
	C	I. php ?		
		II. php?		
		III. <script></script>		CO2
		IV. <&> &	05	
	D	How do you write "Hello World" in PHP	— (5x1)	
	D	I. echo "Hello World";		
		II. Document.Write("Hello World");		
		III. "Hello World";		
	Е	What is the correct way to add 1 to the \$count variable?	—	
	Ľ	I. count++;		
		II. ++count		
		III. \$count+;		
		$IV. \qquad $count = +1$		
Q6	А	Which one of these variables has an illegal name?		
		I. Şmy-Var		
		II. \$my_Var		
		III. ŞmyVar		
	В	How do you create an array in PHP?		
		I. \$cars = array["Volvo", "BMW", "Toyota"];		
		II. \$cars = array("Volvo", "BMW", "Toyota");		
		III. \$cars = "Volvo", "BMW", "Toyota";		
	С	How do you insert COMMENTS in Python code?		
	0	I. #This is a comment	~ -	
		II. /*This is a comment*/	05	CO2
		III. //This is a comment	(5x1)	001
	D	Which operator can be used to compare two values?		
	2	. ==		
		II. ×		
		Ⅲ. ◇		
		IV. =		
	Е	How do you start writing a for loop in Python?	—	
	_	I. for x in y:		
		II. for $x > y$:		
		III. for each x in y:		

	SCETION B (50 M)		
	Each question will carry 10 Marks		
	Instruction: Write short note		
Q 7	Evaluate a basic concept various 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 OR Evaluate the merits/demerits of client based scripting language over server based scripting language	10	СО3
1.	Section C (20 Marks) Each question will carry 20 Marks		
	Instruction: Write long answer		
Q 12	Demonstrate the role of Remote Sensing and GIS in Geospatial modelling of real world problem with a case study OR Demonstrate the role of Geospatial programming in Geo-Informatics Engineering. How database are managed in WEB GIS?		CO4