Name: Enrolment No:				
		UNIVERSITY WITH A PURPOSE		
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES				
End Semester Examination, December 2019 Course: Advanced Functional Thinking Semester: V				
Program: B.Tech (CSE + Bigdata) Time 03 hrs.				
Course Code: CSBD3002 Max. Marks: 1				
Instructions: All questions are compulsory. Question no 9 and 11 has internal choice.				
SECTION A				
S. No.			Marks	СО
Q 1	Differentiate between java and Scala.		4	CO1
Q 2	Describe the if-else-comprehension in Scala with pseudo code.		4	CO1
Q 3	Describe function declaration in Scala.		4	CO2
Q 4	Mention the types of variables in Scala and differentiate between them.		4	CO2
Q 5	Write few frameworks of Scala.		4	CO3
SECTION B				
Q 6	Using a small code snippet discuss why do we need <i>App</i> in Scala. Explain <i>Closure</i> in Scala.		6+4	CO4
Q 7	Illustrate the method overloading and operator overloading in Scala with example. Explain <i>extend</i> Keyword in Scala.		6+4	CO2
Q 8	Explain implicit classes with syntax. Why Traits used in scala? What is a trait mixins in Scala?		2+4+4	CO3
Q 9	Discuss the different types of <i>Literals</i> in Scala. Explain string interpolation in Scala with code snippet.		2+8	CO2
Q 9 (OR)	Discuss the use of f method and raw method	nod in Scala string interpolation	5+5	CO2
SECTION-C				
Q 10	Explain pattern matching in Scala through explain the result of x+y*z. Describe <i>fina</i>		10+8+ 2	CO4
Q 11	Explain different types of variable declaration process in Scala with proper code. Explain the need of higher-order function in Scala with example. Explain the working of <i>yield</i> in Scala.		5+10+ 5	CO1, CO5
Q 11 (OR)	 Explain the following concepts with the help of code snippet a. function in Scala b. functionality of Yield c. Map function d. Scala exception 		5+5+5 +5	CO1, CO5