Name:						
Enrolment No:		UNIVERSITY WITH A PURPOSE				
	UNIVERSITY OF PETH	ROLEUM AND ENERGY	STUDIES			
End Semester Examination, December 2019						
Course:	Object Oriented Programming		Semester:	III		
Program:	B.Tech.(CSE)-BAO,BFSI, CCVT	, ECOM-RA, Mainframe Te	DM-RA, Mainframe Technology, IT-Infrastructure,			
	Graphics & Gaming, Mobile App	lication Development)	Time	: 03 hrs.		
Course Code:	CSEG 2016	Max. Marks: 100				
Instructions: A	Answer all the questions					
	S	SECTION A				

S. No.		Marks	СО
Q1	What is an anonymous class? Explain the different types of anonymous class with an example	4	CO1
Q2	Draw the architecture of JVM and explain all the functional blocks of JVM	4	CO2
Q3	What is java collection? What are the difference between Throw and Throws exception	4	CO5
Q4	Give suitable examples to read from and write bytes to a file?	4	CO3
Q5	What is JDBC Connection? Explain steps to get Database connection in a simple java program.	4	CO5

	SECTION B		
Q 6	Create a Date class in Java having day, month and year data members. Create constructors for initializing data members, functions for validating date, getting values of data members and displaying the date.	g 10	
Q7	Explain the Various Networking Classes and interfaces using Java.Net Package?	10	CO2
Q8	Describe interfaces & how to implement it with a Java Program?	10	C05
Q9	Explain the concept of streams and about stream classes and classification? OR What is a wrapper class? Explain any five java wrapper class with an example		CO1, CO3
	SECTION-C		·
Q10	 a). Describe Servlets with a Java Program? (10 Marks) b). What is nested class in Java? Explain the different types of nested class with an example.(10 Marks) 		CO5
Q11	 c). Write a Java program for sorting of strings and searching a string from an array? (10 Marks) d). Explain the following string functions with an example; concat(), replace(), 		CO2, CO4

split(), join().	
OR	
An election is conducted by 5 candidates. the candidates are numbered 1 to 5 and the voting is done by marking the candidate number on the ballot paper. Write a java program to read the ballot and count the votes by each candidates. In case a number read is outside the range 1 to 5,the ballot should be considered as a spoilt ballots. (10 Marks)	