

Name:
Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2021

Course: Object Oriented Programming
Program: B.Tech CSE+ALL IBM Course
Course Code: CSEG2016

Semester: IV
Time: 03 hrs.
Max. Marks: 100

SECTION A

1. Each Question will carry 5 Marks

2. Instruction: Complete the statement / answer the correct answer(s)

S. No	Questions	CO
Q 1	Fill in the blank with appropriate words / words in the following code. (Line number 5 and 7) 1. import java.sql.*; 2. public class Demo { 3. public static void main(String[] args) { 4. try{ 5. Class. -----(com.mysql.jdbc.Driver); 6. Connection conn ; 7. conn = -----getConnection("jdbc:mysql://localhost:3306/jdbc ","root","1234"); 8. System.out.println("Connection Successful");	CO4
Q 2	Fill in the blank. 1. ----- function returns a character at a specified location in the string. 2. Java byte code output from the JDK compiler will be placed into a file with ----- extension.	CO1
Q 3	State whether True or False: 1. The object created by the string class can be modified. (True/False) 2. It is possible to overload two functions which have the same parameter list but different return values. (True/False)	CO2
Q 4	What will be the output of the following Java program? <pre>import java.util.*; public class Test{ public static void main(String args[]){ TreeSet<String> al=new TreeSet<String>(); al.add("Programming"); al.add("Object"); al.add("Oriented"); al.add("Object"); Iterator<String> itr=al.iterator(); while(itr.hasNext()){ System.out.println(itr.next()); } } }</pre>	CO4
Q 5	Which Java exception will be thrown when the following code is executed? <pre>public class MultiStart extends Thread{ public void run(){ System.out.println("thread is running... "); } public static void main(String args[]){ MultiStart t1=new MultiStart(); t1.start(); t1.start(); } }</pre>	CO3

Q 6	<p>What will be the output of the following java program:</p> <pre>public class Test { public static void main(String args[]){ String s1= "Advanced"; String s2= s1+ "Programming"; s1 ="Java"+ "Language"; s2.concat(s1); System.out.println(s1); System.out.println(s2);}}</pre>	CO2
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SECTION B

- 1. Each question will carry 10 marks**
- 2. Instruction: Write short / brief notes**

S. No	Questions	CO					
Q 7	What are the differences between final, finally, and finalize in java? Explain the logic with example.	CO1					
Q 8	“We use abstract class & interface interchangeably as per program’s requirement.” Justify this statement with example to show pros & cons of using abstract class & interface in different scenarios.	CO3					
Q 9	What is a package in java, show techniques how to import one package into another through java program.	CO2					
Q 10	With the help of example, explain the creation of thread using different approach and implement synchronization in the method.	CO4					
Q 11	Explain the use of JDBC with suitable example. Write a JAVA program to update a record of a table named employee, which is developed in mysql database. Increase the salary of each employee by 10%. Schema of employee table is as: (Populate the table and show the result after updation.)	CO4					
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Empid	Ename	Salary	Edepartment	eaddress			

SECTION-C

- 1. Each Question carries 20 Marks.**
- 2. Instruction: Write long answer**
- 3. Attempt any one question from section C.**

S. No	Question	CO
Q12	(a) Write any four advantages of JSP over servlets. (6) (b) Draw and explain the lifecycle of a JSP page. (6) (c) Differentiate between JSP Scriptlet & JSP Expression tag. Give example. (8)	CO5

OR

Write a JSP login page to enter the username and password entered by the user and display a welcome page upon successful login otherwise display an incorrect authentication page.