# **Faculty of Computing**

# **National School of Business Management**

## **ONLINE EXAMINATION ANSWER BOOKLET**

**DECLARATION:**

I acknowledge the NSBM Examination Honour Code, and**I hereby confirm** that the submitted work is entirely my own and I have not

1. used the services of any agency or person(s) providing a specimen, model, or ghost-written work in the preparation of the work I submit for this open-book examination.
2. given assistance in accessing this paper or in providing a specimen, model or ghost-written work to other students submitting for this open-book examination.

I have marked the attendance

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| **INDEX NO** | 22013561 | |
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| **DEGREE PROGRAM** | Bachelor of Information Technology web and mobile application (VU BIT) | **BATCH – 20.1** |
| **MODULE CODE** | SE 101.3 | |
| **MODULE** | Object Oriented Programming with Java | |

**INSTRUCTIONS:**

Use this answer booklet to answer structured essay type questions only.

When you upload to the LMS, you need to convert this file into PDF format and save with your index no.

All the submissions will be checked for plagiarism. Plagiarism, collusion, and copying are severe and grave offences in the university and penalties that would be imposed.

1)

public class Employee {

private String name;

private int perHourRate;

public Employee(String name)

{

this.name=name;

}

public String getName()

{

return name;

}

public void setPerHourRate(int perHourRate)

{

this.perHourRate=perHourRate;

}

public int getPerDayRate()

{

return perHourRate;

}

}

public class Main {

public static void main(String[] args) {

Employee emp1=new Employee("Imeth");

Employee emp2=new Employee("Chanux");

emp1.setPerHourRate(10);

System.out.println("Employee name: "+emp1.getName()+" Hour rate: "+emp1.getPerDayRate()+"");

System.out.println("Employee2 name: "+emp2.getName()+" Hour rate: "+emp1.getPerDayRate()+"");

}

}

2)

1.

public class Student

{

public int admNo;

public String firstName, lastName, batch;

public Student(int num,String fnam,String lnam,String bt)

{

admNo=num;

firstName=fnam;

lastName=lnam;

batch=bt;

}

}

public class Marks extends Student

{

public float mark1,mark2;

public Marks(int num,String fnam,String lnam,String bt,float m1,float m2)

{

super(num,fnam,lnam,bt);

mark1=m1;

mark2=m2;

}

public void display()

{

System.out.println("AdmNo :"+admNo);

System.out.println("First Name :"+firstName);

System.out.println("Last Name :"+lastName);

System.out.println("Batch :"+batch);

System.out.println("Mark 01 :"+mark1);

System.out.println("Mark 02 :"+mark2);

}

}

2.

public class MarkObj

{

public static void main(String[] args)

{

Marks obj=new Marks(100,"Imeth",”Mendis","20.1",50f,23f);

obj.display();

}

}

3.

abstract class Loan {

abstract float loanRate();

public void calcMonthlypay(){

}

}

public interface SCitizen {

public float payRate();

}

public class EmployeePay extends Loan implements SCitizen{

public float payRate(){

return 0;

}

public void calcMonthlypay(){

}

public float loanRate(){

return 0;

}

}

3)

1.

public class Question3 {

public static void main(String[] args) {

try{

try{

int a=2,b=0,c;

c=a/b;

}catch(ArithmeticException e){

System.out.println("Can not divide by zero");

}

try{

int arr[] = {3,4,6};

System.out.println(arr[5]);

}catch(ArrayIndexOutOfBoundsException e){

System.out.println("Something went wrong");

}

}catch(Exception e){

}

}

}

2.

public class MultiThreading extends Thread {

public static void main(String[] args) {

MultiThreading abc=new MultiThreading();

abc.start();

System.out.println("Running out of the thread");

}

public void run() {

System.out.println("Running inside the Thread");

}

}

4)

1.

public void average(){

float a=Float.parseFloat(txt1.getText());

float b=Float.parseFloat(txt2.getText());

float c;

c=(a+b)/2;

txt3.setText(Float.toString(c));

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

average();

}

2.

package pkg42;

import java.io.File;

import java.io.FileWriter;

import java.util.Scanner;

public class File {

public static void main(String[] args)

{

try{

FileWriter abc=new FileWriter("File1.txt");

abc.write("Web and Mobile Application Development");

abc.close();

System.out.println("File written successfully");

File fl=new File("File1.txt");

Scanner sc=new Scanner(fl);

while(sc.hasNextLine())

{

String data=sc.nextLine();

System.out.println(data);

}

}

catch(Exception e)

{

e.printStackTrace();

}

}

}

3.

package jdbc1;

import java.sql.\*;

public class Jdbc1 {

static final String JDBC\_DRIVER="com.mysql.jdbc.Driver";

static final String DB\_URL="jdbc:mysql://localhost/DatabaseName";

static final String USER="root";

static final String PASS="";

public static void main(String[] args) {

Connection conn=null;

Statement stmt=null;

try{

Class.forName("com.mysql.jdbc.Driver");

System.out.println("Connecting to a selected database....");

conn=DriverManager.getConnection(DB\_URL,USER,PASS);

System.out.println("Connected database successfully....");

System.out.println("Creating statement...");

stmt=conn.createStatement();

String sql="INSERT INTO Employee (Employee\_ID,First\_Name,Last\_Name,Basic\_salary,Dept\_ID)" +

"VALUES (10, 'Imeth', 'Mendis', 10000.00,100 )";

stmt.executeUpdate(sql);

sql="SELECT \* FROM Employee";

ResultSet rs=stmt.executeQuery(sql);

while(rs.next()){

int id =rs.getInt("Employee\_ID");

String fname=rs.getString("First\_Name");

String lname=rs.getString("Last\_Name");

float bsalary=rs.getFloat("Basic\_salary");

float deid=rs.getFloat("Dept\_ID");

System.out.println("Employee ID: "+id);

System.out.println("First Name: "+fname);

System.out.println("Last Name: "+lname);

System.out.println("Basic Salary: "+bsalary);

System.out.println("Dept\_ID: "+deid);

}

rs.close();

}catch(Exception e){

}

}

}