

Enrollment No.....



Faculty of Engineering
End Sem (Even) Examination May-2018
CS2ES08 Java Programming

Programme: Diploma

Branch/Specialisation: CSE

Duration: 3 Hrs.**Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. Which is a valid keyword in java? 1
 (a) Interface (b) String (c) Float (d) Unsigned
- ii. What is the memory size of data type "int" in Java? 1
 (a) 8 bit (b) 16 bit (c) 32 bit (d) 64 bit
- iii. Which is false statement? 1
 (a) Final class cannot be inherited
 (b) Final method can be inherited
 (c) Final method cannot be overridden
 (d) Final variable of a class cannot be changed.
- iv. Which of the following class is a super class of every class in Java? 1
 (a) Abstract (b) String (c) Thread (d) Object
- v. Which of the following access specifier can be used with interface? 1
 (a) Public (b) Private (c) Protected (d) None of these
- vi. Default package of Java is: 1
 (a) java.util (b) java.lang (c) java.io (d) java.net
- vii. If you try to divide by zero, which of the following exception will occur? 1
 (a) ArithmeticException (b) NumberFormatException
 (c) NullPointerException (d) None of these.
- viii. Method which is used to start a thread execution? 1
 (a) init() (b) start() (c) run() (d) resume()
- ix. Which method is called first by an applet? 1
 (a) start() (b) run() (c) init() (d) paint()

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- x. Which package contains color class? 1
 (a) java.applet (b) java.awt (c) java.graphics (d) java.lang
- Q.2 i. Why is Java known as platform independent language? 2
 ii. Write a program to find greater number among three numbers using nested if. 3
 iii. Explain any five features of Java Programming Language in detail. 5
 OR iv. Write difference between Object Oriented Programming and Procedural Programming. 5
- Q.3 i. What do you understand by constructor? Explain with example. 2
 ii. What do you mean by Abstract Method and Abstract Class? Write a program to create abstract class and method. 8
 OR iii. Explain Method Overriding with suitable example. 8
- Q.4 i. What is an interface? How it differs from Abstract Class? 3
 ii. What do you mean by Multiple Inheritance? Explain how to implement Multiple Inheritance using an Interface. 7
 OR iii. Define Package? How to create a package and add a class to it? Explain with the help of a Java Program. 7
- Q.5 i. What is a Thread? Explain its life cycle with diagram. 4
 ii. Illustrate how to create a thread by implementing Runnable interface. 6
 OR iii. What is an Exception? Explain Exception Handling using try, catch and throw with syntax. 6
- Q.6 Attempt any two:
 i. What is an Applet? Explain its life cycle with suitable diagram. 5
 ii. Write a Java Program with Applet code to draw a circle. 5
 iii. How Applet differs from Application? Write a procedure to add applet in HTML file. 5

Marking Scheme

CS2ES08 Java Programming

Q.1	i. Which is a valid keyword in java? (a) Interface	1		ii. Abstract Method Abstract Class Program to create abstract class and method.	2 marks 2 marks 4 marks		8
	ii. What is the memory size of data type "int" in Java? (c) 32 bit	1		OR iii. Definition Method Overriding Example.	3 marks 5 marks		8
	iii. Which is false statement? (c) Final method cannot be overridden	1		Q.4 i. Definition of interface Any 2 differences from Abstract Class	1 mark 2 marks		3
	iv. Which of the following class is a super class of every class in Java? (d) Object	1		ii. Multiple Inheritance Definition Syntax Example Program	1 mark 1 mark 1 mark 4 marks		7
	v. Which of the following access specifier can be used with interface? (a) Public	1		OR iii. Package Definition Syntax Example Java Program	1 mark 1 mark 1 mark 4 marks		7
	vi. Default package of Java is: (b) java.lang	1		Q.5 i. Definition Thread Its life cycle with diagram	1 mark 3 marks		4
	vii. If you try to divide by zero, which of the following exception will occur? (a) ArithmeticException	1		ii. Creation of a thread by implementing Runnable interface. Syntax Program	2 marks 4 marks		6
	viii. Method which is used to start a thread execution? (b) start()	1		OR iii. Definition and example of Exception Program Exception Handling using try, catch and throw with syntax.	2 marks 4 marks		6
	ix. Which method is called first by an applet? (c) init()	1		Q.6 Attempt any two:			
	x. Which package contains color class? (b) java.awt	1		i. Definition & description Applet Its life cycle with diagram	2 marks 3 marks		5
Q.2	i. Reason Java known as platform independent language	2		ii. Java Program with Applet code to draw a circle.	5 marks		5
	ii. Correct Logic Correct Syntax	1 mark 2 marks	3	iii. Points on Applet differ from Application and procedure to add applet in HTML file.	5 marks		5
	iii. any five features of Java Programming Language 1 mark each (1 mark * 5)	5					
OR	iv. Object Oriented Programming and Procedural Programming. 1 mark each difference (1 mark * 5)	5					
Q.3	i. Definition constructor Syntax	1 mark 1 mark	2				
