Seat No: \_\_\_\_\_\_ Enrollment No: \_\_\_\_\_

## PARUL UNIVERSITY

## **FACULTY OF ENGINEERING & TECHNOLOGY**

B.Tech. Winter 2019 - 20 Examination

Semester: 5 Date: 03/12/2019

Subject Code: 03105331 Time: 10:30 am to 1:00 pm

**Subject Name: Java and Internet Technology** 

## **Instructions:**

- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.
- 3. Make suitable assumptions wherever necessary.
- 4. Start new question on new page.

## Q.1 Objective Type Questions -

**(15)** 

**Total Marks: 60** 

- 1. The java compiler
  - a. creates executable
  - b. translates java source code to byte code
  - c. creates classes
  - d. produces java Interpreter
- 2. All standard classes of Java are included within a package called \_\_\_\_\_.
- 3. Object class is a superclass of all other classes?

True/False

D. 10 11

a) 1

```
4. class Output {
    public static void main(String args[])
    {
        int x , y;
        x = 10;
        x++;
        --x;
        y = x++;
        System.out.println(x + " " + y);
    }
    A. 11 11
    B. 10 10
    C. 11 10
```

- 5. Any user-defined exception class is a subclass of the \_\_\_\_\_ class.
- 6. \_\_\_\_\_class cannot be instantiated?

```
7. class Output {
    public static void main(String args[])
    {
        int x , y = 1;
        x = 10;
        if (x != 10 && x / 0 == 0)
            System.out.println(y);
        else
            System.out.println(++y);
        }
    }
}
```

- c) Runtime error owing to division by zero in if condition.
- d) Unpredictable behavior of program.
- 8. Which tag inert a line horizontally on your web page?

	1. <hr/>	
	2. <line></line>	
	3. <li>direction="horizontal"</li>	
	4.	
	9. The switch statement does not require a break.	
	True/False	
	10. Which of the following property is used to control the scrolling of an image in background.	
	a. background-attachment	
	b. background	
	c. background-repeat	
	d. background- position	
	11. JRE stands for	
	12. final method can not be override.	
	True/False	
	13. HTTP stands for	
	14. In Java main() method can be overload.	
	True/False	
	15. A constructor is automatically called when an object is instantiated	
	True/False	
0.2	Answer the following questions. (Attempt any three)	(15)
· C	A) List out features of JAVA. Explain any two in detail.	(10)
	B) Explain following:	
	1. this 2. Static	
	C) Explain following:	
	1. <img/> 2. <a> 3. compareTo 4. indexOf() 5. toCharArray()</a>	
	D) Explain Garbage collection and finalize() with example.	
	Explain survige conceron and manifely with example.	
0.3	A) Explain Exception Handling in JAVA. Write an application that generates user define exception if	(07)
Q.S	any value from its command line arguments is negative.	(07)
	B) 1. Explain life cycle of Servlet.	(04)
	2. Explain Dynamic Method Dispatch with Example.	(04)
	OR	(0.)
	B) 1. Explain life cycle of Applet.	(04)
	2. Types of JDBC Driver.	(04)
	2. Types of JDBC Differ.	(0.)
$\mathbf{O}A$	A) Write a java program to count total no of words, characters and lines in given file. File name	(07)
Ų. <del>+</del>	should be given as command line input. If the file does not exist, the program should handle	(07)
	FileNotFoundException.	
	OR	
	A) Write an application that executes two threads. One thread displays "I am Thread One" every	(07)
	2000 milliseconds & another thread displays "I am Thread Two" every 4000 milliseconds.	(07)
	Create the threads by implementing the Runnable interface.	
	D) Write a Dragram using Java Script to Given a number report if it is a naime number. The sed-	(00)
	B) Write a Program using Java Script to Given a number, report if it is a prime number. The code	(08)
	should contain a function which takes a number as input and displays a Boolean value whether	
	that number is prime or not on the console of the web browser.	