C.U.SHAH UNIVERSITY
Summer Examination-2019

Subject Name: Java Programming (JAVA)
Subject Code: 5CS03MJP1   **Branch: MCA**
Semester: 3   **Date: 15/03/2019**   **Time: 02:30 To 05:30**   **Marks: 70**

Instructions:
   (1) Use of Programmable calculator and any other electronic instrument is prohibited.
   (2) Instructions written on main answer book are strictly to be obeyed.
   (3) Draw neat diagrams and figures (if necessary) at right places.
   (4) Assume suitable data if needed.

SECTION – I

Q-1		**Attempt the Following questions**	**(07)**
	a.	What is Final Keyword in Java?	**1**
	b.	What is the use of javadoc and javah?	**1**
	c.	What is the purpose of break and continue statement?	**1**
	d.	What is an Array? How to Define Array in java.	**1**
	e.	What is ternary operator?	**1**
	f.	How can you generate random numbers in Java?	**1**
	g.	What is Command Line Arguments?	**1**
Q-2		**Attempt all questions**	**(14)**
	a	Explain Bitwise Operators with examples.	**5**
	b	What is Constructor? Explain parameterize Constructor with example.	**5**
	c	Write a Program for print the series like 1+1/2+1/3+1/4…………..	**4**

OR

Q-2		**Attempt all questions**	**(14)**
	a	Explain the java oops concepts with examples.	**5**
	b	What is String Class? Explain the any five String Methods with examples	**5**
	c	Write java program to check the Year is Leap year or not using Keyboard input.	**4**
Q-3		**Attempt all questions**	**(14)**
	a	Explain Access Modifiers with suitable examples.	**7**
	b	What is an Abstract class? Explain an Abstract class with example.	**7**

OR

Q-3	a	What is Inheritance? Explain the types of Inheritance with examples	**7**
	b	What is Interface? Explain the Interface with examples.	**7**

SECTION – II

Q-4   **Attempt the Following questions**   **(07)**

    a. What is Enum type?   **1**
    b. What is Exception?   **1**
    c. What is the different between checkbox and checkbox group?   **1**
    d. What are the two ways of implementing multi-threading in Java?   **1**
    e. What is multi-threading?   **1**
    f. How to Run Applet Program with Syntax.   **1**
    g. What is the difference between a Window and a Frame?   **1**

Q-5   **Attempt all questions**   **(14)**

    a   Explain the any five Thread Methods with examples.   **5**

    b   Explain BufferedWriter and the BufferedReader classes with examples.   **5**
    c   Write an applet program to show NAME and password label and textbox respectively to enter text in it.   **4**

OR

Q-5   **Attempt all questions**   **(14)**

    a   Explain Try, Catch, Throw, Throws and Finally with examples   **5**
    b   Explain FileReader and FileWriter classes with suitable examples   **5**
    c   Make an Applet that create two buttons named "BLUE" and "RED" When a button is Pressed the background color of the applet will be "BLUE" and "RED".   **4**

Q-6   **Attempt all questions**   **(14)**

    a   What is a Thread? Explain Thread life cycle and Thread priority   **7**
    b   What is Layout manager? Explain any three Layout manager with examples   **7**

OR

Q-6   **Attempt all Questions**   **(14)**

    a   What is an Applet? Explain an Applet life cycle with examples.   **7**
    b   Explain any five components of AWT with examples.   **7**