BACHELOR OF COMPUTER APPLICATIONS (BCA) (Pre-Revised)

Term-End Examination

CS-74: INTRODUCTION TO INTERNET PROGRAMMING

Time: 2 Hours] [Maximum Marks: 60

Note: Question number 1 is compulsory. Attempt <u>any two</u> questions from the rest.

- a. What is a static method in java? Explain why
 the main method in java is always static.
 - b. What is polymorphism? What are the differences between compile - time and run time polymorphism? Explain with an example.

What is inheritance? Write a Java program to
 illustrate the use of inheritance.

d. Write a java program to generate the following output, using a two dimensional array: 7

а

a b

abc

abcd

```
2x3=6
    Differentiate between the following-
e.
    (i) Constructor and method
     (ii) Transient and volatile
     (iii) Abstract class and interface
     Write the output of the following:
                                                    2
f
if ("String". to String() == "String");
System.out.println("Equal");
}
else
 System.out.println("Not equal");
```

- 2. a. What is a thread? What is the difference between process and a thread in Java? Why do we need to run () and start () methods? Can we achieve the objective with only the run() method?
 - b. What is the result of the following operation?

2

System.out.println(4/3);

	C.	What is an applet? Explain how to implemen	ìt
		an applet on a webpage using the <applet< td=""><td>></td></applet<>	>
		tag.	5
3.	_. a.	What is a stream? Differentiate betwee	n
		stream source and stream destination. Whic	h
		class would you use for reading from the	e
		console?	6
•	b.	What is the output of the following code?	2
		String str = "Welcome";	
		str.concat("to Java");	
٠		System.out.println(str);	
	Ç.	What is the utility of the "throws" keyword is	n
		Java?	2
	d.	Write a program that accepts the name of	а
	file	on the command line and displays its contents	; ,
		•	5
•	a.	Define Layout Manager. Explain Grid Ba	g
		Layout in detail with an example.	6
	b.	How is a constant defined in Java?	2
-	C.	Define class. What type of variables can	а
		class contain?	4
	ď.	How many listeners are there for detecting	g
		mouse movements? Explain briefly.	3
	a.	Write a java program to accept two numbers	S
		on the command line and print out their sum.	

b.	Define an access Specifier. Give a suitable	le
	example.	3
C.	When do we use the parseInt() functio	n?
	Explain.	5
d.	What is type casting? Explain.	3