# MAR THOMA RESIDENTIAL SCHOOL, TIRUVALLA

## FIRST TERMINAL EXAMINATION -August 2017

· · · · · ·	COMPUTER APPLICATIONS		Marks:80
Std VIII	CON	in OTER AN I BIOLIS	Time:2hrs
Question 1			
a) What do you mean by a class?			[2]
b) Define Polymorphism.			[2]
c) What is Encapsulation?			[2]
d) Write down the difference between unary and binary operators.			[2]
e) Why a class is	called an object f	factory?	[2]
Question 2			[2]
a) Name two types of Java programs.			[2]
b) What is inheritance?			[2]
c) What do you mean by Java Byte code?			[2]
d) Define character set in Java.			[2]
e) What do you n	nean by a token in	n Java?	[2]
Question 3			[2]
a) Name Boolean literals in Java.			[2]
b) What is a litera	al?		[2]
c) What do you mean by an identifier?			[2]
d) Differentiate between an operator and an expression.			[2]
e) Define a block in java.			[2]
f) Write down the difference between an Integer literal and a floating point literal.			al. [2]
g) What is abstraction in java?			[2]
h) Write one difference between / and % operator.			[2]
i) Write down the name of the following literals.			[2]
1) 'p'			
		s in java.	[2]
j) What do you m	lean by data type	a m java.	
Question 4	0.11	ntifiers are valid or not. If invalid write down	the reason: [4
1) sum o	fdigits	2) 2017August	,
3) myfile		4) class	

### Question 5

Write down the name of the separator and the symbol for the following:

[6]

- 1) statement terminator
- 2) to separate list of variables
- 3) to enclose arguments in a method
- 4) to make compound statements
- 5) used as array subscript
- 6) to represent floating point literals

### Question 6

Write down the *output* of the following:

[4]

1

System.out.println("The king said \"Begin at the beginning!\" to me.");

System.out.print(" Have a \n nice day");

System.out.println("Sum of 3+4 is\t seven");

System.out.print("Your answer is correct");

#### **Question 7**

- a) Write an algorithm and draw a flow chart to input 2 numbers and find their sum and average.
- b) Write an algorithm and draw a flow chart to input a number. If the number is even calculate square of the number otherwise calculate cube of the number.
- c) Write an algorithm and draw a flow chart to input number of hours worked and rate per hour. Calculate and print the total wages of the worker.

Total wages=hours worked \* rate per hour.

- d) Write an algorithm and draw a flow chart to input the price(price) and quantity(qty) of articles purchased from a shop.
  - a) Calculate the total cost as price\*qty
  - b) 15% discount on total cost if the total cost is greater than Rs.2500
  - c) net amount to be paid after deducting the discount.

### **Question 8**

Write a java program to print that

The 14 th President of India is Ram Nath Kovind.