



Primrose Schools

ICSE Curriculum
(A Unit of Primrose Educational Trust, Chennai)
An ISO 9001:2015 Certified Institution

State Purpose of Worksheet – II Term Examination [2018 – 2019]

[KG Class work/Home Assignment/Alternate Class work/Internal Assessment/Continuous Assessment/Unit Test/Cycle Test/Revision Test/Mid Term Examination/Term Examination/Preboard]

Name:	Std: VIII	Subject: Computer Science [Theory]
Date:	Term: II	Topic: NA
Maximum Marks: 60	Time Duration: 1 ½ hr	Type of Assessment (if internal assessment): NA

Answers to this Paper must be written on the paper provided separately.

*You will **not** be allowed to write during the first 15 minutes.*

This time is to be spent in reading the Question paper.

The time given at the head of this Paper is the time allowed for writing the answers

*Attempt **any four** questions from **Section A**. A total of **four questions** are to be attempted from **Section B**.*

The intended marks for the questions or part of questions are given in brackets [].

Section A [20 Marks]

Attempt **any four** questions

Question 1

- a) What is the difference between / and % operator? Explain with examples. [3]
- b) Write the java expression for the following. [2]
- i) $\frac{5x^3+2x}{y+z}$ ii) $\frac{3xy+4zx}{8x^3+6xy}$

Question 2

Name the following.

- a) Two types of booting [2]
- b) Two system icons in Windows [2]
- c) One MS-DOS files [2]

Question 3

Fill in the blanks.

- a) _____ are the graphical representations of the programs on the desktop.
- b) The _____ icon displays all the resources of the computer system.
- c) By default, MS Excel provides _____ worksheets in a workbook.
- d) The built-in formulae for specific numeric/non numeric processing are called _____.
- e) The _____ is used for making decisions as well as comparisons in a flowchart.

Question 4

- a) Give two examples of a primitive data type and two examples of a composite data type. [4]
- b) What is the use of keyword 'import'? [1]

Question 5

- a) Write the format of the functions used in MS Excel to perform the following tasks. [3]
- i) To calculate the average of 82, 67, 80, 74 and 95
 - ii) To calculate the sum of the first five multiples of 7
 - iii) To determine the lowest value of the cell references from A4 to A12
- b) What is an operating system? Give an example. [2]

Section B [40 Marks]

Attempt **any four** questions
All questions carry equal marks

Question 5

- a) What is meant by type conversion? How is implicit type conversion different from explicit type conversion? Explain with an example. [4]
- b) What will the following function return when executed? [4]
- i) Math.max (-11,-10) ii) Math. ceil(8.9)
- c) Predict the output of the given snippet, when executed. [2]
- ```
int x =1 , y =1;
if (n>0)
{
x = x+1;
y = y+1;
}
```
- What will be the value of x and y , if n assumes a value
- (i) 1                              (ii) 0

**Question 6**

Write a program to enter three unequal number. Display the greatest number among them. [10]

**Question 7**

- a) What is meant by a package? Name two Java Application Programming Interface packages. [5]
- b) Name the type of error in each of the following. [5]
- i) Division by a variable that contains a value zero
  - ii) Multiplication operator used when the operation should be addition.
  - iii) Missing semicolon
  - iv) Use of *string* instead of *String*
  - v) Use of square brackets [ ] instead of parenthesis ( )

**Question 8**

- a) Java is case sensitive. Explain. [3]
- b) Define byte code. [3]
- c) Java uses compiler as well as interpreter. Explain the statement. [4]

**Question 9**

Predict the output of the following. [2]

i) int a = 0 , b = 12 , c = 24;

```
a = -- c + b++ + b
```

ii) int a = 2 , b = 10 , c = 14;

```
a = ++ c + -- b + c++
```

iii) `int x = 3 , y = 15 , z = 5;`  
`z += --x + y++ + x`

[2]

iv) `a = 5.6, b = 6.4;`  
`c = Math.ceil(a) + Math.floor(b);`

[2]

v) `int a; float b=5.4; double c= 3;`  
`a = (int) b* c;`

[2]

**Question 10:**

Write an algorithm and draw a flowchart to enter two angles and check whether they are complementary , supplementary or neither of the two.

[10]