City International School, Mumbai

SECOND PRELIMINARY EXAMINATION 2018 - 2019

Date: 16/01/2019

Answer the following questions.

Answer the following questions.

a.

Marks: 100

Std: X

Subject: Computer Applications

Time: 2 hrs

The first fifteen minutes are to spent on reading the paper.

The time mentioned above is the time to write the paper.

This paper consists of 5 pages the paper is divided in two sections.

Answer all questions from section A and any 4 from section B.

Section A is of 40 marks and section B is of 60 Marks.

Marks of questions are given in brackets ().

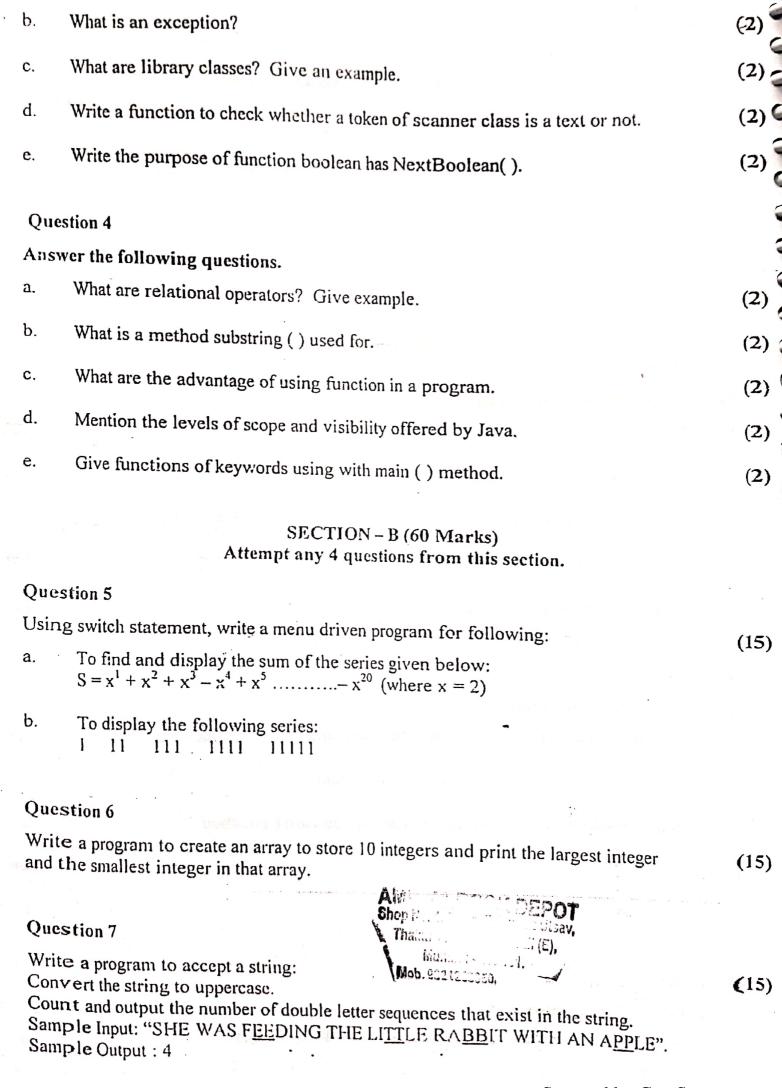
SECTION – A (40 Marks) Attempt all questions

Question 1

a.	Name any two OOP's principles.	(2)
b.	Name two types of constructor.	(2)
c.	Give two differences between switch statement and if- else statements.	(2)
d.	What is a literal?	(2)
e.	Write Java expression of $\sqrt{2as + U^2}$	(2)
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Question 2 Mob. 9821283050		
Answer the following questions.		
a.	State difference between entry controlled loop and exit controlled loop.	(2)
b.	Explain meaning of break and continue statement.	(2)
c.	Differentiate between islowercase () and touppercase () method.	(2)
d.	Name any two access specifier.	(2)
e.	Define endswith () and startwith ().	(2)
Question 3		

State two difference between String and String Buffer Objects.

(2)



Question 8

- a. Write a program to input any string and print the same in reverse order.
- (8)

(7)

(15)

b. Write a program using string function to input any word and print the same in alphabetical order.

Question 9

Write a program to accept a world and convert it into lowercase if its in uppercase, and display the new word by replacing only the vowels with the character following it.

Example:

Sample Input: computer Sample Output: cpmputfr

Question 10

Design a class to overload a function series () as follows:

(15)

a. double series (double n) with one double argument and returns the sum of the series. $sum = \frac{1}{1} + \frac{1}{2} + \frac{1}{3} \dots \dots + \frac{1}{n}$

b. Double series (double a, double n) with two double arguments and returns the sum of the series.

$$surn = \frac{1}{a^2} + \frac{4}{a^5} + \frac{7}{a^8} \dots + \frac{10}{a^{11}}$$

to n terms.
