GREENLAWNS HIGH SCHOOL

FINAL EXAMINATION YEAR 2021

SUB : COMPUTER APPLICATION MARKS : 40

STD IX TIME : 1 HOUR

This paper is divided into two Sections.

Attempt all questions from Section A and any two questions from Section B.

The intended marks for questions or parts of questions are given in brackets[]

SECTION A(20 MARKS)

Attempt all questions

Question 1.

a. Give one example of each of an infinite loop using for() and while() loops. [2]

b. Analyse the following program code and determine how many times the loop will be executed and what will be the output of the program segment? [2]

```
int p=200;
while(true)
{     if(p<100)
       break;
    p=p-20;     }
 System.out.println(p);
```

c. What is being computed in the following code for each of the statement commented as line1, line2 and line3. [2]

```
char m= 'E';
int ch=m;          //line1
ch=ch+2;           // line2
System.out.println(ch);  //line3
```

d. What do you mean by block? Give one example. [2]

e. Rewrite the following statement using ternary operator. [2]

```
if(ch> 'D') int val=400;
else int val=200;
```

Question 2.

a. Rewrite the following code after corrections. [2]

```
int m;      if(m=1)  m=500;
else If(m=2)      m=1000;
```

b. What is the difference between break and continue? [2]

c. In a for loop which of the following can be omitted. [1]

i)Initial value ii) test expression

iii) update statement iv) all of them

d. Name the loop mostly used for fixed number of iterations. [1]

e. Write the memory capacity(storage size) of short and float data types in bytes. [2]

f. Name the primitive data types. [2]

SECTION A (20 MARKS)
(Answer any two)

Question 3. [10]

Write a program to print the first 15 numbers of the Pell series. Pell series is such a series which starts from 1 and 2, and the subsequent numbers are the sum of twice the previous numbers and the number previous to the previous number. Pell series: 1, 2, 5, 12, 29, 70, 169, 408, 986, 2378.....

Question 4. [10]

Write a program to accept marks obtained by a student in computer science and print the grades accordingly :

Marks	Grade
Above 90	A
70 to 89	B
50 to 69	C
below 50	D

Question 5. [10]

Write a program to input 3 integers and find the sum of the squares of their last digits.

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