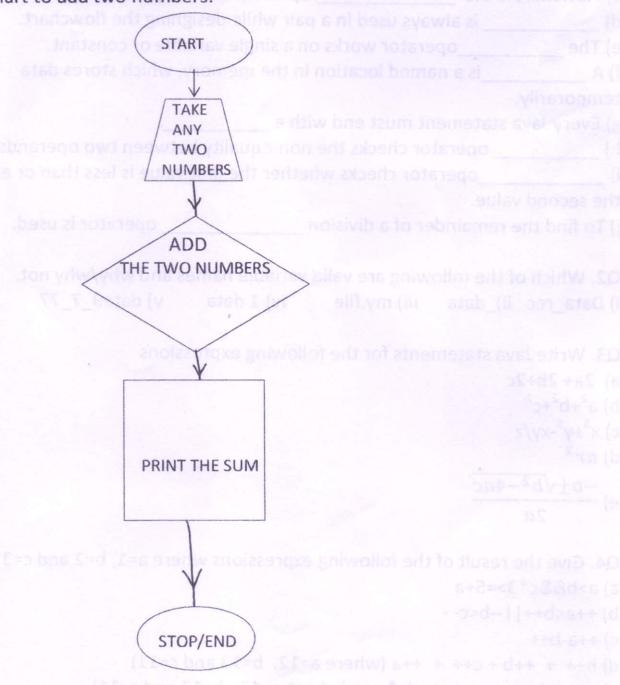
GREENLAWNS HIGH SCHOOL

Std VIII A,B,C FINAL EXAMINATION YEAR 2018 MARKS: 80 Time: 1 ½ hrs **COMPUTER SCIENCE**

| Q1. Fill in the blank III laws Vowel III and alphabet. Display the mussage Vowel III and and an III and III an | [10] |
|--|--------|
| a)box is used to represent the conditional operations for che | ecking |
| or applying any condition. | |
| b) is a rectangular shaped box which denotes processing of instruction. | |
| c) Flowchart is therepresentation of problem logic. | |
| d) is always used in a pair while designing the flowchart. | |
| e) Theoperator works on a single variable or constant. | |
| f) Ais a named location in the memory, which stores data | |
| temporarily. | |
| g) Every Java statement must end with a | |
| h) operator checks the non-equality between two operands. | |
| i)operator checks whether the first value is less than or equa | al to |
| the second value. | |
| j) To find the remainder of a division operator is used. | |
| Q2. Which of the following are valid variable names and why/why not. i) Data_rec ii)_data iii) my.file iv) 1 data v) date9_7_77 Q3. Write Java statements for the following expressions a) $2a+2b+2c$ b) $a^2+b^2+c^2$ c) x^3+y^3-xy/z d) πr^2 e) $\frac{-b\pm\sqrt{b^2-4ac}}{2a}$ | [10] |
| Q4. Give the result of the following expressions where a=1, b=2 and c=3 a) a>b&&c*3>=5+a | [2] |
| b) ++a <b++ b<c< td=""><td>[2]</td></b++ b<c<> | [2] |
| c) ++a-b++ | [1] |
| d) b++ + ++b + c++ + ++a (where a=12, b=13 and c=11) | [2] |
| e) a + b++ + ++a +b * c++ (where a=12, b=13 and c=11) | [1 ½] |
| f) c++ + a++ * (++b) (where a=12, b=13 and c=11) | [1 ½] |

- a) Accept any two numbers. If the first number is greater than the second number, print their sum, otherwise print their product.
- b) Accept any one alphabet. Display the message Vowel if the entered alphabet is a vowel, otherwise display the message Not a Vowel.
- c) Write only algorithm to check whether a number is even or not.
- d) Correct the flowchart symbols and redraw it.
 Flowchart to add two numbers.



| Q6. Explain the following terms: a) Bandwidth | | [10] |
|---|-------|--------|
| b)Link c) Web Portal | | |
| d)Cloud Computing | | |
| e) Internet Service Provider | | |
| Q7. Write one difference between the following pairs: a) Hub and Switch | | [10] |
| b) Interpreter and Compiler | | |
| c) Internet Message Access Protocol and Simple Mail Transfer Protocol d)Flowchart and Algorithm | (fund | ction) |
| e) Division operator and Modulus operator(with example) | | |
| Q8. Answer the following: | | |
| a) List any three variable naming rule. | 3] | |
| b) What is domain name servers? How is it related to URL? | | [3] |
| c) Discuss briefly the role of Router and Gateway. | | [3] |
| d) What is the basic function of following protocols? i) TCP ii) FTP | | [3] |
| e) Explain any three limitations of Cloud Computing. | | [3] |
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