Dayawati Modi Public School
Half-Yearly Examination Session : 2020-2021

Class: XI   **Sub : Comp.Sc(083)**
FM: 80   **Time : 2 ½ Hrs**

1. Choose the correct option:-   10
i) A step by step method for solving a problem using English Language
(a) Program   (b) Flowchart   (c) statement   (d) Algorithm

ii) Set of statements is executed based upon conditional test.
(a) Looping   (b) Selective   (c) Sequence   (d) None

iii) Set of statements is executed again and again based upon conditional test.
(a) Looping   (b) Selective   (c) Sequence   (d) None

iv) The graphical representation of algorithm is
(a) program   (b) Flowchart   (c) statement   (d) Algorithm

v)All instructions are executed one after other.
(a) Looping   (b) Selective   (c) Sequence   (d) None

vi) There are the following main types of storage media.
(a) Magnetic   (b) Optical   (c) Solid State (d) None

vii) Rom has the following types:-
(a) PROM   (b) EEPROM   (c) EEPROM   (d) All

viii) 1 Terabyte(TB) = ……………..Gigabyte(GB)
(a) 1024   (b) 1000   (c) 1124   (d) All

ix) Freeware software is used to …………..
(a) Free of cost   (b) Pirated   (c) Copied   (d) All

x) …………virus infects an important file called normal.dot of MS Word.
(a) File   (b) Macro   (c) Boot sectot   (d) None

2. Identify Valid or Invalid of the following:-   6
a) y_1   b) *_num   c) C56   d) int123   e) 2Emp   f) Employee Name

3.Write the functions with the example of the following operators:-   4
a) **   b) //   c) +=   d)!=

4. What will be the output of the following statements ?   4
   i) x = sqrt (9);   ii) y = strlen ("CHINA");
   iii) z = int (- 8);   iv) ch = tolower ('A');

5. Answer the following questions:-
a) What is a computer? What are the characteristics of computers?   3
b) What is an operating system? What are its functions?   2

c) What is the difference between data and Information?   2

d) What is difference between RAM and ROM?   2

e) Define System Software and what are its two main types? Give examples.   2

f) What is Booting?   2

g) Which of the following are hardware and software?   2
        i) Transistor   (ii) Internet Explorer   (iii) Compiler   (iv)FORTRAN

h) Expand the following: 2
   1. MICR   2. EPROM
   2.
i) Define the IPO cycle.   2

j) Differentiate between an interpreter and a compiler.   3

k) Explain any two utilities.   3

l) Differentiate between flowchart and an algorithm.   3

m) What is Trojan Horse virus?   2

5. Write an algorithm to find the area of a triangle.   3

6. Draw a **Flowchart** with **Algorithms** to add and subtract any two numbers.   4

7. Draw a flowchart to find the largest number among the three numbers.   3

8. Draw a flowchart to enter the age of a person and find whether he caste vote or not.
   Note that the minimum age limit is 18.   3

9. Write an algorithm to find whether given number is odd or even.   3

10. Write an algorithm to make a cup of tea.   3

11. Draw a flowchart to find the simple interest. (Sequence)   3

12. Draw the following diagrams:-   4
a) Start/Stop Box   b) Decision Box
c) Flow of controls   d) Processing Box

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