

ISHER ACADEMY SR. SEC. SCHOOL
UNIT-III 2020
CLASS – XI
SUBJECT – COMPUTER SCIENCE (083)

TIME : 3 Hrs.

MM :70

Note- Attempt all questions carefully.

1. Define Software? 1
2. What is CPU? 1
3. What is Hardware? 1
4. What is type Casting? 1
5. What is Variable? 1
6. What is Function? 1
7. What is Dynamic typing? 1
8. What is Keywords? 1
9. what is Tokens? 1
10. What is Pseudocode? 1
11. Define Computer & its Components. 2
12. Write a program to swap two numbers using a third variable. 2
13. Write a program to find average of three number. 3
14. What will be the output of following codes? 3
X,Y =2,6
X,Y = Y, X+2
Print(X,Y)
15. Draw a flow chart to add two numbers along with algorithm in simple English. 3
16. Draw a flowchart to determine the larger of two numbers, along with algorithm in simple English. 3
17. Different between Compiler and Interpreter. 2
18. What is an Operating System and its functions? 2
19. What is Logic Gate? Name he three basic logic gates with symbols? 3
20. What is a Memory? Define its types. 3
21. What is Debugging? How many types of errors? 2
22. What are Data types? What are Python,s built-in-core data types? 3
23. What are Operators? Define types of Operators. 3
24. What will be the output produced by the following code? 3
X,Z = 5,10
Y =X+3
X=X-1
X=X+2
Print (X;,X,Y;,Y,Z;,Z)
25. What will be the output produced by following code? 3
Print(11+3)
Print('11'+'3')
26. Design a circuit to realise the following : 3
 $F(a,b,c) = AB + AC' + B'A'C$
27. State and Prove the DeMorgan's Theorem. 3
28. Prepare a table of combination for the following Boolean logic expressions /(Truth Table). 3
(a) $X + YZ'$
(b) $X'Y' + X'Y$
29. Do the following conversions from decimal number to the other number system. 3
(a) $(54)_{10} - ()_2$
(b) $(76)_{10} - ()_8$
(c) $(108)_{10} - ()_{16}$
30. Try the following conversions. 2
(a) $(514)_8 - ()_{10}$
(b) $(220)_8 - ()_2$
31. Try the following conversions. 2
(a) $(76F)_{16} - ()_{10}$
(b) $(1010111)_2 - ()_{10}$
32. What is the function of Memory? What are its measuring Units.? 1
33. What are various categories of Software? 3