KENDRIYA VIDYALAYA SANGATHAN
FIRST PERIODIC TEST, 2019

Subject: Computer Science **Max. Marks: 40**
Class: XI **Time : 1:30 Hrs.**

Note: 1. All the questions are compulsory.
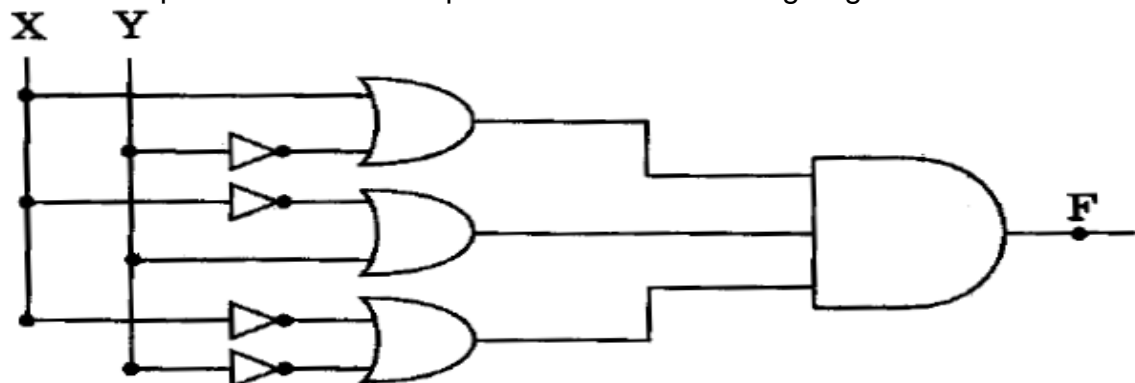 **2. Answer the questions after carefully reading the text.**

Q1. What is UNICODE? What is its significant? 2

Q2. Name the law shown below and verify it using a truth table. 2
 A + B.C=(A+B).(A+C)

Q3. Draw logic circuit diagram for the following expression: 2
 Y=ab + b'c + c'a'

Q4. Prove algebraically **X.Y + X'.Z + Y.Z = X.Y+X'.Z** 2

Q5. Write the equivalent Boolean expression for the following Logic Circuit : 2

Q6. What is difference between an interpreter and a compiler? 2

Q7. What is the difference between RAM and ROM? 2

Q8. What do you mean by Literals? Explain with example. 2

Q9. What is the function of memory? What are its measuring units? 2

Q10. Arrange the following memory units in ascending order of their size 2
 Byte, kilo byte, tera byte, peta byte, nibble, bit, giga byte, zetta byte

Q11. Explain briefly the functions of Operating System? 2

Q12. Convert the following base of number system: 4X1.5=6
 (i) $(1010100.011)_2 = (\ldots\ldots\ldots\ldots)_{10}$
 (ii) $(3674)_8 = (\ldots\ldots\ldots\ldots)_2$
 (iii) $(72905)_{10} = (\ldots\ldots\ldots\ldots)_{16}$
 (iv) $(B2F)_{16} = (\ldots\ldots\ldots\ldots)_8$

Q13. What are the basic Units of computer? Explain the functions of each unit briefly. 2

Q14. What are the advantages and disadvantages of Python programming language? 2

Q15. Write a program in Python to calculate area and circumference of circle. If radius of circle input by user through keyboard. 2

Q16. Write a program in Python to find out simple interest if Principle amount, rate and time are input form keyboard. 2

Q17. Write a program in Python to convert temperature given in Fahrenheit to Celsius. 2

Q18 Predict the output: 2

(a)	**x, y=20,60** **y, x, y=x, y-10, x+10** **print(x, y)**

(b)	**a, b=12,13** **c, b=a*2,a/2** **print(a, b, c)**

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