HIGHER SECONDARY QUARTERLY EXAMINATION - 2018

11- STD   COMPUTER SCIENCE

Time Allowed : 2.30 Hours   SECTION - I   Maximum Marks : 70

Note : i) Answer all the questions. ii) Choose the most suitable answer from the given four alternatives and write the option code and the corresponding answer. 15 x 1 = 15

1. How many types of Booting process in system
   a) 3   b) 2   c) 5   d) 4

2. Which one of the following is Biometric Device?
   a) Scanner   b) Fingerprint Scanner   c) Light Pen   d) Mouse

3. How many memory size in Tera Bytes contain?
   a) 2^{10} b) 2^{30} c) 2^{40} d) 2^{50}

4. A.A= ?
   a) A   b) 0   c) 1   d) $\overline{A}$

5. NAND and NOR Gates are called as.....
   a) Fundamental Gates   b) Logical Gates   c) Universal Gates   d) Electronic Gates

6. $(10100110)_2 = (\quad)_{16}$
   a) A5   b) B5   c) A6   d) B6

7. Which of the following is a CISC processor?
   a) Intel P6   b) AMD K6   c) Pentium III   d) Pentium IV

8. Which of the following software is not system software?
   a) Windows   b) M.S.Word   c) Linux   d) DOS

9. Which of the following Operating System is introduced 64 - Bit Processor
   a) Windows XP   b) Windows Me   c) Windows Vista   d) Windows NT

10. Expansion for GUI
    a) Graphical User Interface   b) Graphic Using Interface
    c) Graphical User Intermediate   d) Graphical Uniform Interface

11. CD data is represented as tiny indentations known as...
    a) Bits   b) Lands   c) Pits   d) Bytes

12. Which is the default browser for Ubuntu?
    a) Firefox   b) Internet Explorer   c) Chrome   d) Thunderbird

13. If $0 < i$ before the assignment $i := i-1$ after the assignment, we can conclude that
    a) $0 < i$ b) 0 d—I   c) $i = 0$ d) 0 e—i

14. If C is false just before the loop, the control flows through 1. S12. While C3. S24. S3
    a) S1;S3   b) S1;S2;S3   c) S1;S2;S2;S3   d) S1;S2;S2;S2;S3

15. If $m \times a + n \times b$ is an invariant for the assignment $a, b := a + 8, b + 7$, the values of m and n are
    a) m = 8, n = 7   b) m = 7, n = -8   c) m = 7, n = 8   d) m = 8, n = -7

SECTION – II

Answer any 6 question. Question no.17 is compulsorily.   6 X 2 = 12

16. Write Demerits of Artificial Intelligence.
17. $(8888)_8$ Is it Exactly Octal Number ? State the Reason.
18. Define the Types of RAM
19. Define Software and its Types.
20. Differnce between Click and Double Click
21. What do you mean by Recycle bin?
22. What is Pseudo Code ?
23. Define : Invariants
24. What is Multitasking

SECTION – III

Answer any 6 question. Question no.27 is compulsorily answered.   6 X 3 = 18

25. How Finger Print Scanner working?
26. Expand the following   :   (i) BCD   (ii) ASCII   (ii) DLNN
27. C = A+B This expression belongs to which Operator ? Draw the Diagram and Truth Table.
28. Differentiate the Memory : Cache and Flash
29. What is Android OS ? List the versions atleast 6
30. Explain   :   (i) Switch User   (ii) Log off   (iii) Restart
31. List the Popular versions of Linux
32. What are the merits and demerits of Time Sharing Operating System
33. Specific usage of Cortana.

SECTION – IV

Answer all the questions.   5 X 5 = 25

34. Explain all the Generations of Computer? *(OR)*

    Short answer on the following:

    a) Data   b) Hardware c) Natural Language Processing d) Types of Memory e) Bit

35. Write the Expressions with truth table of AND, OR, NOR, NAND, NOR gates

    Convert the followings

    (i) $(65)_{10}$ =   ($)_2$
    (vi) $(5AF)_{16}$ =   ($)_2$
    (vii) $(12.29)_{10}$ =   ($)_2$
    (viii) $(452)_8$ =   ($)_2$
    (ix) $(1100101)_2$ =   ($)_8$

36. What do you mean by ROM and its Types? *(OR)*

    Determine the Merits and demerits of Open Source Operating System

37. Compare and explain any 5 Icons in Windows and Ubuntu.   *(OR)*

    In an Quadratic equation $ax^2 + bx + c = 0$ to derivate the finite steps of Algorithm using Real Root.

38. Add the following using 2's Complement.

    i) -18 + -25   ii) -63 + -14   *(OR)*

    What are the Important OSs are available. Explain each OS ?