Padasalai's - MODEL QUESTION PAPER – 1

CLASS : XI   **VOL-I full**   **MARKS :70**

SUB   : COMPUTER SCIENCE   **TIME : 2.30hrs**

PART – I

Choose the best answer: **15x1=15**

1. Match the following
     i) EDVAC
     ii) APPLE
     iii) IBM 1620
     iv) Expert systems
         (1) second generation system
         (2) fifth generation system
         (3) first generation system
         (4) fourth generation system
         a. 4,3,2,1   b. 3,1,2,4   c. 4,1,2,3   d. 3,4,1,2

2. The number of Tamil glyphs is about………………
         a. 255   b. 128   c. 170   d. 256

3. One Hertz =…………………… cycle per second.
         a. 0   b. 1   c. 2   d. 3

4. Expansion of USB is……………………
     a. uniform source bus   b. universal source bus
     c. universal system bus   d. universal serial bus

5. Which of the following OD is a commercially licensed operating system?
     a. Windows   b. UBUNTU   c. FEDORA   d. REDHAT

6. Interactive operating system is a ………………
     a. GUI   b. CUI   c. UI   d. OS

7. Which windows version focused on multitasking?
     a. 95   b. 98   c. XP   d. windows 7

8. Which of the following is the another way of open a program?
     a. start→ run   b. start → program   c. start→ apps   d. start → file

9. Which key combination is used to delete the file or folder permanently?
     a. Alt + Delete   b. Ctrl + Delete   c. Shift + Delete   d. Ctrl + Alt + Delete

10. In which control flow the statements are repeated until the condition become false?
     a. sequential   b. alternative control flow   c. iteration   d. all of these

11. Match the following:
     a) Specification   -   (1) hiding the details
     b) Abstraction   -   (2) divide the main algorithm into functions
     c) Composition   -   (3) relation between the I/O
     d) Decomposition   -   (4) algorithm consists of control flow statements.
     a. 1,4,2,3   b. 3,1,4,2   c. 4,1,3,2   d. 1,4,3,2

12. How many times the loop is iterated?
     i=0   while i ≠5 i=i+1
     a. 4   b. 5   c. 6   d. 0

13. Which statement executed repeatedly as long as the loop condition is true?
      a. sequential   b. abstraction   c. iteration   d. assignments

14. How many base case atleast must be recursion?
     a. 1   b. 2   c. 4   d. 3

15. Which of the following is a single user operating system?
     a. MS-DOS   b. Unix   c. Linux   d. Windows

PART – II

Answer the any 6 in the following questions : Q.No: 20 is compulsory   **6x2=12**

16. Write the applications of computer.
17. Write short note on ISCII.
18. Convert 98.46_{10} to binary.
19. Differentiate CD and DVD.
20. Draw the block diagram of a microprocessor based system.
21. List out examples of mobile operating system.
22. Differentiate cut and copy options.
23. What is desktop?
24. Define an algorithm?

PART – III

Answer the any 6 in the following questions: Q.No: 31 is compulsory   **6x3=18**

25. Differentiate impact printers and non-impact printers.
26. Convert 7295_{10} to hexadecimal.
27. What is HDMI?
28. Differentiate RAM and ROM.
29. What are the differences between windows and Linux operating system?
30. Mention the different server distributions in Linux OS.
31. Name the icons on the taskbar notification area.
32. Specify a function to find the minimum of two numbers
33. Define factorial of a natural number recursively.

PART – IV

Answer the following: **5x5=25**

34. Explain the basic components of a computer with a neat diagram.

OR

   Explain the following:
        a) QR code reader   b) Robotics   c) Nano – Technology   d) Touch screen

35. a) Write the procedure to convert fractional decimal to binary.
   b) State whether the following numbers are valid or not. If invalid given reason:

S.No	Statements	Yes / No	Reason (if invalid)
1.	786 is an octal number		
2.	101 is a binary number		
3.	Radix of octal number is 7		

OR

Explain the fundamental gates with expression and truth table.

36. Explain the types of ROM.

OR

   Explain any 3 secondary storage devices.

37. Explain the concept of a distributed operating systems.

OR

   Explain advantages and disadvantages of open source operating systems.

38. Explain the following in detail:
        a) FIFO   b) SJF   c) Round Robin

OR

   Explain the elements of window.