

Computer Science

Time: 2.30 Hours

Marks: 70

PART - A

Answer all the questions:

15 x 1 = 15

1. Component used in First Generation Computer
 - a. Integrated Circuit
 - b. Artificial Intelligence
 - c. Vacuum Tube
 - d. Microprocessor

2. Base value for Binary number system is
 - a. 10
 - b. 2
 - c. 8
 - d. 16

3. The value of A.A is
 - a. 0
 - b. 1
 - c. A
 - d. A'

4. Ink jet Printer is a
 - a. Impact Printer
 - b. Character Printer
 - c. Non-impact Printer
 - d. Serial Printer

5. Secondary Memory is a
 - a. Non-volatile Memory
 - b. Volatile Memory
 - c. Internal Memory
 - d. Main Memory

6. If the logical circuit outputs are based on the inputs presented at that time, then it is called
 - a. Sequential Circuit
 - b. Flip-Flop
 - c. Combinational Circuit
 - d. NAND GATE

7. Operating system is a
 - a. Hardware
 - b. Input
 - c. Application Software
 - d. System Software

8. Walky-talky is an example for

- a. Half duplex mode
- b. Full duplex mode
- c. Simplex mode
- d. Modem

9. Which of the following buttons used to select multiple options?

- a. Check Box
- b. Tabs
- c. Buttons
- d. Radio Buttons

10. _____ is Launch Pad for most of the application.

- a. Start menu
- b. Edit menu
- c. File menu
- c. Help menu

11. Files when deleted are moved to

- a. My document
- b. Recycle bin
- c. Desktop
- d. c drive

12. The Linux command _____ is used to copy the standard output to a file.

- a. tee
- b. echo
- c. man
- d. cat

13. Which of the following is a logical operator?

- a. ++
- b. --
- c. ==
- d. ||

14. Find the final value of y.

```
x=10;
do
{
  y=x+2;
  x- -;
} while(x>=0);
```

- a. 1
- b. 0
- c. -1
- d. 2

15. Which of the following tag is used to create a hyperlink to another document.

- a. <p>
- b. <a>
- c.
- d.

Part -B

6 x 2 = 12

Answer any six questions. Question No. 24 is compulsory

16. Convert 78_{10} to binary using sum of powers of 2 method.
17. State the basic units of the CPU and give function of each of the unit
18. Write the truth table for bubbled OR gate.
19. What is meant by stored program ? Who developed?
20. What is meant by click and drag?
21. Explain the following terms a. Run Command b. Burning the CD
22. How are non-printable characters represented? Give an example
23. Write the tag to define a paragraph and the attribute used with Bgsound tag.
24. Write truth table for XOR gate with Boolean expression.

Part -C

6 x 3 = 18

Answer any six questions. Question No. 32 is compulsory

25. Differentiate data and information.
26. Write the components of CPU with their functions.
27. Simplify the following Boolean expression
 $A'B'C' + A'BC' + A'BC + AB'C'$
28. Write the features of operating system.
29. Explain the term NIC and protocol.
30. Write the names of the resizing button with their usage.
31. What is the use of the following command cat, cp and rm.
32. Explain and differentiate static and auto variables.
33. Write the components of function prototype.

PART - D

Answer all questions:

5 X 5 = 25

30. Explain the term a. software b. compiler c. laptop d. workstation
e. word processor

or

Explain different types of memory

31. Explain fundamental gates with truth table and universal gate with
logical circuit

or

Explain half Adder with truth table

32. Explain process management with algorithm

or

Explain the term a. Telnet b. HTTP c. URL d. ICANN e. LAN

33. What is wordPad? How do you start wordPad? Write the parts of the
wordPad window.

or

Explain different types of users in linux

34. Explain for loop with syntax.

or

Draw a flowchart to read 100 numbers and find their average.