

**2021**

**COMPUTER FUNDAMENTALS AND PROGRAMMING**

*Full Marks: 60*

Time: Two hours

*The figures in the margin indicate full marks for the questions.*

A. Multiple Choice Questions

1 x 20=20

1. Who is known as the father of computers?
  - a. Alan Turing
  - b. Charles Babbage
  - c. Simur Cray
  - d. Augusta Adaming
2. Which of the following is non-volatile storage?
  - a. Backup
  - b. Secondary
  - c. Primary
  - d. Cache
3. Which of the following is not a function of the Input Unit?
  - a. It reads instructions and data from the outside world.
  - b. It converts the data into computer acceptable format.
  - c. It makes the data into user understandable format.
  - d. It supplies the data and instructions to the computer for further processing.
4. Which of the following values is the correct value of this binary code 1011 and 1111?
  - a. 11 and 14
  - b. 10 and 15
  - c. 11 and 15
  - d. 10 and 14

5. Select the correct statement from the following statements.
- i) MS-Excel creates workbooks, and each workbook may contain more worksheets.
  - ii) A worksheet in MS-Excel 2000 package has a maximum of 256 columns and 65536 rows.
  - iii) Columns are identified by a number and rows are identified by a letter.
  - iv) Cells are identified by the column letter and the row number.
- a. i, ii, iii
  - b. ii, iii, iv
  - c. i, iii, iv
  - d. i, ii, iv
6. What is the decimal value for the octal value 1?
- a. 1
  - b. 8
  - c. 10
  - d. 100
7. Which one of the following parts is called the brain of the computer?
- a. ALU
  - b. Monitor
  - c. UPS
  - d. CPU
8. www stands
- a. World Wild Worm
  - b. World Wide West
  - c. Wide Watch Web
  - d. World Wide Web
9. What is the full form EEPROM?
- a. Electrically Erasable Process Read-Only Memory
  - b. Electrically Erasable Programmable Read-Only Memory
  - c. Electrical Erase Program Read-Only Memory
  - d. Electron Erase Program Read-Only Memory

10. Which of the following is not considered hardware?
  - a. Operating system
  - b. CPU
  - c. Keyboard
  - d. Hard Disk
11. Which of the following is equal to a gigabyte?
  - a. 1024 bytes
  - b. 512 GB
  - c. 1024 bits
  - d. 1024 MB
12. DOS stands for
  - a. Disk Operating System
  - b. Disk Operating Session
  - c. Digital Operating System
  - d. Digital Open System
13. The 2's complement of a binary no. is obtained by adding \_\_\_\_ to its 1's complement.
  - a. 0
  - b. 1
  - c. 10
  - d. 12
14. The brain of a computer system is
  - a. CPU
  - b. ALU
  - c. Memory
  - d. Control Unit
15. A program that translates assembly language into the machine-language equivalent
  - a. Machine language
  - b. Assembler
  - c. Interpreter
  - d. C Program

16. The hexadecimal representation of 14 is \_\_\_\_\_
- a. A
  - b. F
  - c. D
  - d. E
17. Word processing software is a
- a. Synchronous Software
  - b. Package Software
  - c. Application Software
  - d. System Software
18. The value of base in a decimal number system is \_\_\_\_\_
- a. 2
  - b. 8
  - c. 10
  - d. 16
19. Line Printers that print one line at a time are \_\_\_\_\_
- a. Laser Printers
  - b. Inkjet Printers
  - c. Drum Printers
  - d. Chain Printers
20. In which of the following, the second-generation computer was based?
- a. Transistor
  - b. Vacuum tube
  - c. Microprocessor
  - d. Electron tube

B. Very Short Question

2\*6=12

1. Define Operating System.
2. Write the differences between RAM and ROM.
3. What is secondary memory?
4. Differentiate between MAN and WAN.
5. Convert decimal 62 to its binary equivalent.

6. Write the difference between while and do-while loop.

C Short Question

4\*7=28

1. Draw the block diagram of a computer and briefly explain the function of the arithmetic and logic unit.
2. State the various functions performed by the operating system
3. Write a C program to find the factorial of a given number.
4. Write a C program to display even numbers between 1 and 50.
5. Discuss the merits and demerits of impact and non-impact printers.

OR

What is mail merge? Mention the steps to use mail merge in MS Word application.

6. Subtract 110101 – 100101 using 1's complement.
7. Write short notes on the following (any two)
  - i) Search Engine
  - ii) Internet
  - iii) Digitizers