

[Established by Govt. of Kerala]

Fundamentals of Computer & Operating System

(CTTC, CPPTTC, WPDEO, PDCFA, DCA, DOA)

Time: 2 hours**Maximum Marks: 100****Note: Write the answers for Questions from 1 to 35 in the MCQ answer sheet****Part- I Choose the correct answer****(10 x 1 Mark = 10 Marks)**

- 1) A is the smallest element of information used by a computer.
a) Byte b) Nibble c) Binary d) Bit
- 2) is the first compiler developed for writing business oriented programs.
a) FORTRAN b) PASCAL c) COBOL d) BUSICALC
- 3) Dot matrix printer is a type of printer.
a) Impact b) Laser c) Line d) Non Impact
- 4) Which of the following is a secondary storage device?
a) Scanner b) Printer c) Flash drive d) None of these
- 5) A topology in which all nodes are connected in a single cable is known as
a) Star b) Bus c) Mesh d) None of these
- 6) The speed of the super computer is measured in terms of
a) GB b) RPM c) Tera Flops d) GHz
- 7) is essentially an 'inverted' mouse.
a) Joystick b) Track Ball c) Light Pen d) None of these
- 8) Hard copy can be prepared by
a) Line Printer b) Plotter c) Type writer terminal d) All of these
- 9) In a flow chart, the symbol used to represent calculation is
a) Parallelogram b) Rectangle c) Circle d) Rhombus
- 10) is a single user operating system.
a) Linux b) Windows 2000 c) Unix d) MS-DOS

Part- II Fill in the blanks**(10 x 1 Mark = 10 Marks)**

- 11) The type of error that can be trapped by the compiler is called error.
- 12) 1GB = MB.
- 13) The DOS command to lists all names starting with 'BEN' and having .doc as file name extension is
- 14) The DOS command used to delete a subdirectory is
- 15) is a hardware device to input text and/or copy images into the computer.
- 16) The resolution of computer screen is measured in terms of
- 17) Typical storage capacity of a DVD optical disk is
- 18) 1's complement of 1001 is
- 19) High level programming languages were first developed during the generation of computers.
- 20) In simplex mode, data transmission is directional.

Part-III State true or false**(10 x 1 Mark = 10 Marks)**

- 21) Hard disk is an example of volatile memory.
- 22) Cache memory is a place to store data permanently.
- 23) Blue Ray refers to a kind of optical disk.
- 24) Windows XP does not support networking environment.

- 25) In analog computer, the input data is a continuously changing electrical or non-electrical information.
- 26) We can restore files from recycle bin.
- 27) Compiler is a hardware unit.
- 28) Assembly languages are processor oriented.
- 29) A hub is a hardware device used to connect several computers together.
- 30) An interpreter is used to translate a program written in high level language into machine language.

Part - IV Convert the following

(5 x 2 Marks = 10 Marks)

- 31) $38_{10} = \dots\dots\dots$ octal.
- 32) $683_{10} = \dots\dots\dots$ binary.
- 33) $5CA_{16} = \dots\dots\dots$ decimal.
- 34) $0110_2 + 1011_2 = \dots\dots\dots$ binary.
- 35) $1010011101_2 = \dots\dots\dots$ hexadecimal.

Part - V Expand the following

(10 x 1 Mark = 10 Marks)

- | | |
|-----------|------------|
| 36) MICR | 41) HTTP |
| 37) USB | 42) URL |
| 38) SDRAM | 43) EEPROM |
| 39) GUI | 44) VLSI |
| 40) BCD | 45) ASCII |

(Part VI, Part VII, Part VIII)

Part-VI Answer the Questions in a sentence or two (Any five)

(5 x 2 Marks = 10 Marks)

- 46) Explain system software and its two types.
- 47) What is boot sector virus?
- 48) Explain Satellite communication.
- 49) What is BIOS?
- 50) Give short cut keys for the following.
 - a) Undo
 - b) Copy
 - c) Select all
 - d) Print
 - e) Replace
- 51) What is a multi tasking operating system?
- 52) What are the advantages of high level programming language?

Part-VII Answer the following Questions (Any four)

(4 x 5 Marks = 20 Marks)

- 53) Name five Linux commands and illustrate their uses.
- 54) Compare SRAM and DRAM.
- 55) Explain the two types of caching.
- 56) Differentiate between
 - a) Flowchart and Algorithm.
 - b) Extranet and Intranet.
- 57) Compare CRT and LCD monitors.
- 58) Explain any two modes of data transmission in computer networks.
- 59) Write short notes on
 - a) DVD
 - b) USB

Part-VIII Explain the following (Any Two)

(2 x 10 Marks = 20 Marks)

- 60) What is Internet? Explain how data is transmitted and received in Internet.
- 61) Read three numbers a, b and c. Draw a flowchart to print the greatest of these three numbers.
- 62) Any five secondary storage devices.
- 63) Computer Organization.
- 64) The generation of computers.