# A1

## `RUTRONIX

[Estd. by Govt. of Kerala]

## Computer Fundamentals & Operating System

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

**Time: 2 hours**                                    **Maximum Marks: 100**

### Note: Write the answers for Questions from 1 to 45 in the MCQ answer sheet

**Part- I   Choose the correct answer**                    **(10 x 1 Mark = 10 Marks)**

1. Access time of present day RAM is measured in………………. .
   a) micro seconds       b) milli seconds       c) nano seconds   d) centi seconds

2. A communication network which is used by large organizations over regional, national or global area is called ………………. .
   a) LAN          b) WAN          c) MAN          d) Intranet

3. First integrated circuit chip was developed by a team in which ……… was a member.
   a) C.Babbage          b) W.H.Brattain          c) J.S.Kilby       d) Robert Noyee

4. ………………. is a volatile memory.
   a) ROM       b) Cache          c) Magnetic Memory     d) Flash Memory

5. ………………. is a secondary storage device.
   a) ROM          b) RAM          c) Hard Disk     d) None of these

6. Dot matrix printer is a type of ………………..
   a) Impact Printer          b) Laser Printer       c) Line Printer       d) Non Impact Printer

7. High level programming languages were first developed during the……………….of computers.
   a) first generation    b) second generation     c) third generation   d) fourth generation

8. ……………….is considered father of punched card data processing.
   a) J.Persper Eckert       b) Charles Babbage      c) Blaise Pascal  d) Dr.Herman Hollerith

9. 1GB means ……………….
   a) 1024 kB      b) 1024 mB          c) 1000 kB      d) 1000 mB

10. Typical storage capacity of a CD optical Disk is……………….
    a) 70 MB          b) 700 MB       c) 7 GB          d) 70 GB

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

11. In DOS, ……………….command is used to create a directory.
12. Transistor was introduced in the ……………….generation.
13. ……………. Is a wireless personal area network.
14. 37 octal is …………. decimal.
15. In DOS, ……………….. command displays the amount of total and available memory.
16. A group of 4 bits is called……………….
17. In DOS, ……………….. command is used to change the name of a file.
18. The resolution of computer screen is expressed in………………..
19. Normally, operating system is loaded in the ……………….. drive partition.(A,B,C,D,E,F)
20. In DOS, ……………….. command deletes a subdirectory.

**Part- III State whether True or False**       **(10 x 1 Mark = 10 Marks)**

21. Assembly languages are processor oriented.
22. A hub is a hardware device used to connect several computers together.
23. A hexadecimal system has eight symbols.
24. An interpreter executes one program line at a time.
25. Logical error can be trapped by the compiler.
26. A chain printer consists of a cylindrical drum.
27. In a computer, ALU refers to Automatic Linking Unit.
28. Windows 98 is a multi-user OS.
29. Blue Ray refers to a kind of infra red peripheral interface.
30. Floppy Disk is a kind of Volatile memory.

**Part- IV Give Expansion of the following**       **(10 x 1 Mark = 10 Marks)**

31. OCR
32. WYSIWYG
33. ENIAC
34. ASCII
35. BIOS
36. HTTP
37. NTFS
38. SDRAM
39. ARPA
40. EEPROM

**Part- V Answer the following**       **(5 x 2 Marks = 10 Marks)**

41. 6BFBF hex = ……………….. decimal.
42. 1101001110 = ……………….. Octal.
43. 2's Complement of 1011 is ………………..
44. 101000101= ……………….. Hex.
45. 58 Decimal = ……………….. Binary.

**Part- VI Write short notes on** *(Any Six)*       **(6 x 5 Marks = 30 Marks)**

46. Computer Memory Devices. (Electronic type only)
47. Flow chart and different symbols used in it.
48. Generations of computers.
49. Robotics.
50. Linux commands with examples.
51. Five common input devices.
52. Five external commands in DOS with examples.
53. Network topologies.

**Part- VII Essay Questions** *(Any two)*       **(2 x 10 Marks = 20 Marks)**

54. Explain Printers - Various Types, Features and Comparison.
55. What is Internet? Explain how data is transmitted and received in Internet.
56. Computer Network - Various Types, Features and Comparison.