Question Bank

BCA-T111: Computer Fundamentals

- 1. What is Computer? Why is it also known as a data processor?
- 2. What is data processing? Differenciate between data and information. Whis is more useful to the people.
- 3. List out some important characteristics of Computer.
- 4. How many types of Computer System. Explain them.
- 5. What is meantby Computer Generations? List out the various generation in Computer technologies along with their characteristics.
- 6. What is a computer? Draw a block diagram of a computer system and discuss the functionalities of each in detail. Explain different generations of computers.
- 7. Compare microcomputers, minicomputers and main frames in terms of size and cost.
- 8. Differentiate between the characteristic of primary and secondary memory of computer.
- 9. Represent (2720) into the BCD, ASCII and EBCDIC format.
- 10. Convert (1100110100)₂ into
 - a) Decimal
 - b) Octal
 - c) Hexadecimal
- 11. Define the terms: Compiler, interpreter, Assembler, Loader, and Linker.
- 12. Define the software. List and explain the types of software. Give two example of each category.
- 13. Short notes on
 - a) Machine Language
 - b) High-Level Language
 - c) Assembly Language
- 14. What is an Operating System? Explain all the four types of operating systems.
- 15. Explain the usage of the following S / W constructs with an example for each:
 - (i) Variables and Constants
 - (ii) Arrays
 - (iii) If then... Else
 - (iv) "While" statement

- 16. What is the usage of recycle bin in MS Windows? Write the steps involved for doing the
- 17. following tasks:
 - (i) To empty recycle bin
 - (ii) To restore the files and folders
 - (iii) To adjust the amount of disk space
- 18. With the help of a diagram, explain any two LAN topologies.
- 19. Differentiate the following:
 - (i) Analog and Digital transmission
 - (ii) Parallel processing and Vector processing
- 20. Define the software. List and explain the types of software. Give two example of each category.
- 21. Explain the OSI model and explain the working of its various layers
- 22. Explain the various characteristics of RISC.
- 23. Explain the three categories of printers.
- 24. What do you mean by networks? Explain various types of networks.
- 25. Define the term Multimedia. List and explain any three multimedia tools and their usage.
- 26. Convert the octal number 577.46 to the Following:
 - (i) BCD equivalent
 - (ii) Decimal number
 - (iii) Binary number
 - (iv) Hexadecimal number
- 27. Write four differences between each of the following:
 - (i) Router and Gateway
 - (ii) Ring topology and Star topology
- 28. What are communication channels in Networking? List two transmission media. Further,
- 29. describe any two such features of each that the other one does not have.
- 30. Write a step-by-step procedure to do the following activities in WINDOWS-95:
 - (i) Add/Remove applications
 - (ii) Controlling Access to files, folders
 - (iii) To record, play and edit sound files
- 31. Explain two differences between multiprogramming and multitasking. Also give an

- 32. example each of a multiprogramming and a multitasking operating system.
- 33. What are four measures that one should take to ensure that data does not get corrupted? Also, mention three measures needed for providing physical security to the computer systems.
- 34. Write the characteristics of RISC architecture.
- 35. Explain five resources used to manage windows and user-defined objects.
- 36. What is a dial-up? Explain how it is different from cable network.
- 37. What is Network security? Explain two measures than can be adopted for Network security.
- 38. optical disk over a magnetic disk.
- 39. What is a magnetic disk? Define 'optical disk'. List three advantages of an example
- 40. Explain five types of media through which data may be communicated...
- 41. Explain the four categories of programming languages. Also, indicate the category that is perceived to be the hardest to program.
- 42. Differentiate between Microcomputers, Minicomputers and Mainframes
- 43. Define computer virus. How do they infect and spread in a computer system? Explain at least three categories of viruses on the basis of their mode of existence. Give three examples of computer viruses.
- 44. Draw and explain any three topologies of a LAN.
- 45. What do you understand by formatting a disk? Write steps for formatting a disk and explain the various options for formatting a disk.
- 46. Differentiate the following:
 - (i) Volatile and Non-volatile memory
 - (ii) Magnetic disk and Magnetic tape
- 47. List all the layers in OSI reference model. Also, explain the functions and services offered by each and every layer.
- 48. What is an operating system? Mention the types of operating systems and explain any two of them in detail.
- 49. Explain the two different ways by which you can connect to the network.
- 50. Draw and briefly explain the memory hierarchy
- 51. Draw and explain the basic structure of CPU.
- 52. Define the basic characteristics of the following I/O devices.

- (b)Laser Printer
 (c)Mouse
 (d)Scanner
 (e)Modems
 . Distinguish betweer
 . What is meant by a
 . What capabilities do
 . Give the full form of
- 53. Distinguish between primary and secondary memory.
- 54. What is meant by a microprocessor? Give the name of some popular microprocessors.
- 55. What capabilities does a computer possess? Give the limitations of a computer.
- 56. Give the full form of the abbreviations: CRT, TFT, VDU, OMR, MICR, OCR.
- 57. Explain multiprocessing in brief.
- 58. List out the various functions normally performed by an operating system.
- 59. What is System software? Give some example of system software.
- 60. Differentiate between the multiprogramming and multitasking.
- 61. Explain the three data transmission modes in brief.
- 62. Why modems are used in data communication systems?
- 63. Define the term network topology.
- 64. How WAN is different from LAN?
- 65, what is an OSI model?
- 66. What is an HTML document? Draw the structure of such a document.
- 67. What is meant by Internet? How it is related to Arpanet.
- 68. Differentiate between Application and Document windows.
- 69. Explain the following topics
 - a. 1) .EXE 2) .COM 3) .BAT 4) .BAK
- 70. Write short notes on the following
 - i. Virtual machine concept
 - ii. Memory management
 - iii. Scheduling
- 71. Explain the various states of a program in a computer system.
- 72. Explain two differences between multiprogramming and multitasking. Also give an example each of a multiprogramming and a multitasking operating system.
- 73. What is spooling? How does it improve the efficiency of an operating system?
- 74. Define the terms: Compiler, interpreter, Assembler, Loader, and Linker.
- 75. Differentiate between Buffering and Spooling.
- 76. Write the names of 4 popular operating systems.

77. Define the term internetworking.

78. Write short notes on :- 1) WWW 2) FTP

3) SMS

4) E-mail

79. What are the basic components of a data communication system?

80. Define the terms – Bridges, Gateways, Routers, and Switches