

SECTION	TERTIARY
FIELD	GENERAL
SPECIALTY	ALL
PAPER	COMPUTER STUDIES
COURSE CODE	L
NATURE OF PAPER	WRITTEN
COEFFICIENT	2

INSTRUCTION TO CANDIDATES

Answer **ALL** the questions in the answer booklet provided. Use the pages provided for rough work only for that purpose. Start answering questions only in the section labelled **WRITING PAPER**.

For Sections A write just the **letter** corresponding to the right answer against the question number. At section C start each question on a **fresh page**.

Section A: MCQ 50 marks

1. The Computer motherboard bus carries. A) People, data and control signal B) People, data and energy C) People, memory address and control signal D) Memory address, data and control signal.
2. Which of the following is system software? A) Linux B) MS Word C) MS Excel D) MS office Suite
3. Which of the following is used by a computer programs writer? A) Utility software B) Operating System C) Drivers D) all
4. A digital system is. A) 0 and 1 B) discretionary C) always correct D) Can work without current.
5. Which of the following is both an input and an output device? A) Printer B) TV remote control C) electric cooker D) head set.
6. There is a type of money called “bitcoins”. The bit in it stands for A) Beat Income Technology B) Big International Technology D) 0 or 1 D) Set of 8 or bytes.
7. Which of the following programs is best used for calculating students marks and averages, GPA and position in class? A) MS WordPad B) Spreadsheet program C) Google program d) power point program.

8. Which characteristic of a computer distinguishes it from electronic calculator? A) Accuracy B) Storage C) Versatility D) Automaticity
9. What is the name given to a network topology where all nodes connect to a central nexus? A) Star B) Bus C) Ring D) hybrid.
10. What is a common name for software that enables a hardware component to communicate with your computer operating system if installed? A) Firmware B) Driver C) Pack solution d) Diagnostics software
11. Which of the following is volatile memory? A) DVD B) CD C) Flash disk D) DD-RAM
12. The entering of data into the computer using a bar code reader is known as. A) direct data entering B) indirect data entering C) data outputting D) OMR data entering.
13. Which of the following must be installed first in a computer? A) Utility software B) Operating System C) Drivers D) all
14. The section of the CPU that is responsible for storing data is known as? A) R-RAM B) Register C) control Unit D) ALU
15. Which of the following is a valid measurement unit of memory? A) GB/s B) Bits per Second C) MB D) All
16. Which of the following is a classification of computer based on operating system? A) Electronic Computer B) Analog Computer C) Digital Computer D) Macintosh Computer.
17. The biggest unit of data here is? A) bit B) byte C) octet D) MB
18. Which of the following is web browser? A) Mozilla Firefox B) Windows C) YAHOO D) Google
19. What is the difference between “http” “https”? A) Source of internet B) Source of computer C) Security D) Setting of websites
20. The internal computer language is? A) Analogue data B) Digital data C) 0 and 1 D) all of the above
21. Hub is associated with network. A) Bus B) Ring C) Star D) Mesh E) All of the above
22. Multiplexing involves path and channel. A) one, one B) one, multiple C) multiple, one D) multiple, multiple E) None of the above
23. The advantage of LAN is A) sharing peripherals B) backing up your data C) saving all your data D) accessing the [web](#) E) automatic printing of data
24. Which type of network would use phone [lines](#)? A) WAN B) LAN C) WAN D) Wireless E) None of the above
25. Servers are those computers which provide resources to other computers connected by: A) network B) backup system C) server D) peripheral E) modem
26. A combination of hardware and software that allows communication and electronic transfer of information between computers is a: A) network B) backup system C) server D) peripheral E) modem
27. What type of resource is most likely to be a shared common resource in a computer network? A) Printers B) Speakers C) Floppy Disk Drives D) [Keyboards](#) E) None of the above
28. A device that connects to a network without the use of cables is said to be: A) distributed B) cabled C) centralized D) open source E) wireless
29. Communication between a computer and a keyboard involves _____ transmission.
 - a) Automatic
 - b) Half-duplex
 - c) Full-duplex
 - d) Simplex

30. A _____ is the physical path over which a message travels.
- a) Path
 - b) Medium
 - c) Protocol
 - d) Route
31. A _____ set of rules that governs data communication.
- a) Protocols
 - b) Standards
 - c) RFCs
 - d) Servers
32. Two devices are in network if _____
- a) a process in one device is able to exchange information with a process in another device
 - b) a process is running on both devices
 - c) PIDs of the processes running on different devices are same
 - d) a process is active and another is inactive
33. In computer network nodes are _____
- a) the computer that originates the data
 - b) the computer that routes the data
 - c) the computer that terminates the data
 - d) all of the mentioned
34. Bluetooth is an example of _____
- a) personal area network
 - b) local area network
 - c) virtual private network
 - d) wide area network
35. Physical or logical arrangement of network is _____
- a) Topology
 - b) Routing
 - c) Networking
 - d) Control
36. _____ topology requires a multipoint connection.
- a) Star
 - b) Mesh
 - c) Ring
 - d) Bus
37. Data communication system spanning states, countries, or the whole world is _____
- a) LAN
 - b) WAN
 - c) MAN
 - d) PAN
38. Data communication system within a building or campus is _____
- a) LAN
 - b) WAN

- c) MAN
 - d) PAN
39. Which network topology requires a central controller or hub?
- a) Star
 - b) Mesh
 - c) Ring
 - d) Bus
40. WAN stands for _____
- a) World area network
 - b) Wide area network
 - c) Web area network
 - d) Web access network
41. What is an output device?
- a) A device that transfer information out of the processor.
 - b) A device that brings out information from computer to the user
 - c) A device that is disconnected out of the computer system
 - d) A device attached out of the computer for users to use
42. The language which the computer can understand and execute is called
- a) An operating system
 - b) Machine language
 - c) Application language
 - d) None of these
43. Which of the following applications is best suited for calculations
- a) Spreadsheet
 - b) Word processor
 - c) Desktop publishing
 - d) Database
44. What does HTML stand for?
- a) Hyper Type Machine Language
 - b) Hyper Tutorial Markup Language
 - c) Hyper Text Machine Language
- 45) Imagine you work for ABC company and you need to purchase a computer that will store the company customer and order information and make it accessible to several users within the company which type of system should you consider purchasing
- a) A notebook b) A desktop pc
 - c) A server d) APDA
- 46) Which internal component performs calculations and logical operations?
- a) Microprocessor b) Rom bios
 - c) Ram chips d) System board

47) Which statement about solid state drives is accurate?

- a) Solid state drives are less expensive than comparably sized magnetic drives
- b) Solid state drives are available in larger capacities than magnetic drives
- c) Solid state drives have no moving parts
- d) Solid state drives never wear out

48) A program is made up of: 2mks

- a) Data and raw facts
- b) Primary storage and hexadecimal numbers
- c) Data and instruction
- d) None of the above

49) What is an instruction. 2mks

- a) Information fed into the computer for processing
- b) Series of 1s and 2s inputted into the computer
- c) Lines of hexadecimal numbers in a computer
- d) Set of binary codes written to perform a specific task

50) Second generation of computers were using ----- Technology 2mks

- a) Artificial intelligence
- b) Microprocessor
- c) Integrated circuits
- d) None of the above

Section Short questions (25 marks)

1. List and explain three each descriptive names of (i) RAM and (ii) ROM.....3 marks
2. what do you understand by digital revolution? Explain using Photography, Music and documentation as examples.....4 mks
3. State the full meaning of the following: i) DOS ii) DVD iii) ATMiv) LCD4marks
4. List three beneficial services that can be offered by the internet and explain how trickster can be checked..4mks
5. The IT-industry deals with two types of products logical and physical. List three examples each.....6marks
6. Give and explain three advantages of computerized documents over non-computerized documents.4marks

Section C Essay (25 marks)

- 1) Differentiate between multiprocessing and parallel processing (5 marks)
- 2) Compare Analogue computers to digital computers (2 marks)
- 3) What is a computer virus? Explain any three ways that virus can easily get into your computer (3 marks)
- 4) In not more than 5 lines, explain how you can save a document for the first time on Excel (5 marks)
- 5) Write short notes on the following (2x5=10 marks)
- 6)
 - a) Internet
 - b) Printer
 - c) Booting
 - d) Computer virus
 - e) Data

f) file name