
























- 1  **Hardware Questions on Discussion**
COMPUTER STUDIES FOR SECONDARY EDUCATION
- 2  **Hardware Questions on Discussion**
1. Conduct a survey of all computers in your institution or department and note the following for each computer (i) type of microprocessor, (ii) speed of microprocessor, (iii) bus width of the computer, (iv) memory (RAM) size and (v) hard-disk size of the computer
- 3  **Hardware Questions on Discussion**
2. Compare with the aid of a diagram, the physical appearance and electronic components of a microcomputer
- 4  **Hardware Questions on Discussion**
3. Draw a carefully well labeled diagram showing the architecture of a typical microprocessor
- 5  **Hardware Questions on Discussion**
4. Explain briefly the microprocessor operation cycle
- 6  **Hardware Questions on Discussion**
5. How is information stored inside a computer?
- 7  **Hardware Questions on Discussion**
6. Give the characteristics of main memory and secondary storage
- 8  **Hardware Questions on Discussion**
7. List two types of main memory and state where each one is used
- 9  **Hardware Questions on Discussion**
8. What is a computer bus? List three types of computer buses and explain their function
- 10  **Hardware Questions on Discussion**
9. What is the function of input/output devices?
- 11  **Hardware Questions on Discussion**
10. Draw a carefully well labeled diagram of four commonly used input devices and output devices. Explain is commonly used.
- 12  **Hardware Questions on Discussion**
11. Compare the two types of diskettes used in terms of size, capacity and whether they are low or high density.
- 13  **Hardware Questions on Discussion**
12. List three techniques for input/output scheduling. Discuss the advantages and disadvantages of each technique
- 14  **Hardware Questions on Discussion**
13. What is the function of an uninterruptible power supply? Describe the two types of UPSs.
- 15  **Hardware Questions on Discussion**
14. Describe the steps a microcomputer goes through while booting up from the hard disk, once it is switched on
- 16  **Hardware Questions on Discussion**
15. What precautions should you take while using a computer?
- 17  **Hardware Questions on Discussion**
16. Why is it important to regularly service a computer?
- 18  **Hardware Questions on Discussion**
17. What is a local area network? Draw a well labeled LAN configuration diagram
- 19  **Hardware Questions on Discussion**
18. Describe star topology with the aid of a diagram. What is the primary advantage of star topology? List the products and accessories of star topology
- 20  **Hardware Questions on Discussion**
19. List three differences between Local Area Networks and Wide Area Networks
- 21  **Hardware Questions on Discussion**
20. Draw the OSI Reference Model and describe the layers. Explain how bridges and routers work
- 22  **Hardware Questions on Discussion**

21. What is the function of Gateway, and where is it used?
- 23  **Hardware Questions on Discussion**
22. Briefly describe four services offered by the internet.