1. Write down characteristics and application of computer. List out the characteristics of generation of computer.
2. What is computer interface? Describe working principle of processor.
3. What are the components and characteristics of CPU? Explain.
4. What is computer system? Discuss components of computer system.
5. What is function of memory? What are the major auxiliary storage devices for a computer?
6. How EEPROM is different from EPROM and PROM?
7. What are the different kinds of output devices? Explain.
8. What are the different kinds of input devices? Explain.
9. Mention use of plotter. How quality of printer is determined?
10. Differentiate between mouse and trackball.
11. Differentiate between
    1. Impact and non impact printer
    2. Hardcopy and softcopy output devices
    3. Compilers and Interpreters.
    4. GUI and CUI
    5. third and fourth generation languages.
12. What role does the OS plays in managing resources? Give an example to illustrate.
13. What is the objective of using operating system? How operating system performs process, memory and file management activities.
14. What is the objective of using OS? How OS perform process, memory and file management activities.
15. What is an OS? Discuss functions and classification of OS.
16. Discuss different types of computer with example.
17. What is computer software? Explain the system software and application software with example.
18. Explain different types system software in detail.
19. What are the different types of software used in the computer systems?
20. What do you mean by multiprocessing?
21. What is real time operating system?
22. Define computer network. Suppose you have a two story building having 15 computers in each of two floors. Now if you are asked to create a network of these computers, what type of network will you create? Give proper justification to your answer.
23. What is switching? How can you differentiate packet switching from circuit switching?
24. What are the advantages of using optical fibers?
25. What is communication protocol? Discuss the OSI model with its layers.
26. Why do we need computer network? Discuss different types of network topologies along with their merits and demerits.
27. Define IP address. Why do we need this address? Compare IPv4 address with IPv6 address.
28. What is CAI and what are its advantages?
29. What is an internet? If you want to connect your computer to the Internet, what you’ll need?
30. What are the different protocols available on the internet?
31. How does an e-mail work? What do you mean by HTTP and how does it works?
32. What is DNS? How it works on the internet?
33. What does the term VoIP mean?
34. Why IP address is used in internet? Mention the significance of domain names in internet?
35. What do you mean by Internet of Things (IoT)? As an IT expert, mention the possible applications of IoT that you have observed in Nepal.
36. Define e-commerce and e-governance.
37. Define DBMS. Explain the functions of DBMS.
38. What is data model? How ER-Model can be used to create conceptual data model? Explain with example.
39. What are the advantages of DBMS over traditional file system? Explain different data models with example.
40. What is database design? Why it is necessary? Write its steps.
41. Who supervise the databases in the organization? What tasks and obligations are under the scope of the database administrator.
42. What is BigData? How centralized database is different than the distributed database?
43. What are the characteristics of multimedia? Discuss.
44. Discuss the characteristics of multimedia.
45. What do you mean by Internet of Things (IoT)? As an IT expert, mention the possible applications of IoT that you have observed in Nepal.
46. What is virus? Explain the types of virus.
47. How we can know there is a virus in our computer?
48. What is malicious software? How virus differs from worms?
49. Define cryptography. Discuss public key cryptography in detail.
50. How does cryptography provide security to our data?
51. Define each of the terms confidentiality, integrity, and authentication.
52. Write short notes:
    1. Spamming
    2. Assembly languages
    3. ISDN
    4. MICR
    5. OCR
    6. OMR
    7. Data Security,
    8. Data Warehouse,
    9. Data Mining