

1. **Identify and describe the four basic functions of the computer. (10%)**
2. **Define bit, byte, ASCII, RAM and ROM. (10%)**
3. **Identify the six technical operations performed by the operating system. (10%)**
4. **Define menu-driven interface, command-line interface, character-based interface, and graphical user interface. Describe the five advantages of graphical user interfaces with WIMP. (15%)**
5. **Describe painting software, bit-mapped graphics, drawing software, and object-oriented graphics. (10%)**
6. **What is a network? Briefly define Internet, information superhighway, and cyberspace. (10%)**
7. **Differentiate between a client/server model and a peer-to-peer model. (5%)**
8. **Explain what are viruses, worms, Trojan horses, logic bombs, time bombs, and macro viruses, respectively. (15%)**
9. **How does an expert system shell differ from an expert system? (5%)**
10. **Identify and define the four modeling tools most widely used by systems analysts. (10%)**