**TRENDS IN COMPUTING**

1. What is information security?

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1. Outline three ways of ensuring efficient backup of data

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1. Differentiate between private and confidential data

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1. Define the following;
2. **Security Threat**

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1. **Security Risk**

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1. **Vulnerability**

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1. **Security Control Measure**

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1. Explain any four threats to information systems

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1. What is system security?

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1. Explain four causes of system failure

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1. State three examples of cyber terrorism

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1. What is a UPS? Outline any four uses of a UPS

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1. Distinguish between computer security risks and computer security threats

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1. Give the categories of systems security risks you know

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1. What do you understand by the term network and internet attacks?

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1. Give the difference between malware and viruses

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1. Distinguish between polymorphic and stealth viruses

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1. Mention five types of computer viruses

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1. How are computer viruses spread and what caution would you give to computer users?

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1. What is the role of antivirus in data protection?

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1. Write a short note on the following;
2. **Spoofing**

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1. **Sniffing**

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1. **Phishing**

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1. **Eavesdropping**

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1. **Dos**

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1. Distinguish between the following
2. hacking and cracking

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1. Private and confidential data

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1. Unauthorized access and unauthorized use

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1. Hacking and eavesdropping

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1. Social engineering and eaves dropping

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1. Encryption and decryption keys

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1. Validation and authentication

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1. State some measures for preventing unauthorized access to systems

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1. Outline four destructive activities crackers can perform on a computer system or network

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1. Distinguish between a PIN and password

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1. Define the term firewall

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1. Outline any two functions of firewalls

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1. What causes system failure

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1. Explain forms of power disturbances that may lead to system failure

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1. State two benefits of hacking to an organization’s computer systems

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1. Explain five ways in which computers are misused.

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1. Distinguish between legal issues and computer ethical issues

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1. Explain any five ethical and unethical issues considered while you use computers in the schools computer laboratory

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1. What are cybercrimes? Explain any five common cybercrimes you know

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1. Distinguish between
2. Copyright and patent rights

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1. Copyright and intellectual property rights

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1. Computer law and ethical issues.

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1. What is software piracy?

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1. State five ways of pirating software.

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1. Give five dangers of using pirated software.

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1. What is meant by the term green computing?

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1. Define a systems analysis.

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1. Distinguish between a systems analyst and systems analysis

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1. Describe the term system development life cycle

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1. Discuss five importance of system analysis in a systems development.

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1. Explain the phases of systems development

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1. Distinguish between a computer career and a profession

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1. Distinguish between systems analyst and a programmer

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1. State example of computer careers that you know

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1. Explain the responsibilities of the following
2. Network administrator

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1. Database administrator

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1. Systems analyst

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1. What career can you take up after your final exams in order to earn a living?

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1. What are emerging technologies

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1. Explain any five emerging trends in IT

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1. Give five trending technologies in the field of education

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1. How do the emerging technologies affect;
2. Computer hardware

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1. Computer software

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1. What is cloud computing? State five advantages of cloud computing.

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1. Explain the advantages of using robots in industries

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1. Explain the term cyber storage. State three examples

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