Applied Science

Internet

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1. Overview of Computer Systems

- Monitor
- CPU (Central Processing Unit)
- Memory
- Input Devices
- Output Devices
- Motherboard
- Software
- Storage

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2. Types of Computers

- Supercomputer
- Mainframe Computer
- Minicomputer
- Personal Computer (PC)
- Workstation Computer

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3. Printers

- Inkjet Printers
- Laser Printers
- Dot Matrix Printers
- 3D Printers
- Multifunction Printers
- Photo Printers

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4. Central Processing Unit

- Types of Central Processing Units
- Arithmetic and Logic Unit (ALU)

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5. Storage Devices

- Types of Storage Devices

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6. Operating Systems

- UNIX
- macOS
- DOS
- Windows
- Linux
- OS/2

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7. Software Applications

- Word Processing Software
- Desktop Publishing Software
- Spreadsheet Software
- Presentation Programs

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8. Networking and Internet Basics

- Networking Basics
- Accessing the Internet
- The Internet Basics
- DICOM (Digital Imaging and Communications in Medicine)
- PACS (Picture Archiving and Communication System)

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9. Graphics and Multimedia

- Graphic Software
- Multimedia
- Creating and Distributing Media Content

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10. Information Systems

- Uses and Parts of an Information System
- Building an Information System
- Creating Programs
- Programming Languages and the System Development Life Cycle

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11. Ergonomics, Health, and Safety

- Ergonomics
- Health and Privacy Issues
- Computer Crimes and Theft

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12. Patient Safety in Medical Environments

- Electrical Hazards for a Patient
- Electrical Current and Body Muscles
- Electric Shock
- Defibrillators
- Pacemakers
    - Types of Pacemakers
- Medical High and Low Frequencies
- Classification of Medical Equipment
- Degree of Protection of Equipment
- Earth Leakage Current

- Maximum Current Limits and Safety Tests

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13. Fire and Explosion Hazards in Hospitals

- Inflammable Gases and Liquids in Hospitals
- Static Electricity
- Precautions Against Fire and Explosion

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14. Hospital Equipment Hazards

- Surgical Diathermy and Other Possible Hazards
  - Surgical Diathermy and Precautions
- Mechanical Hazards in Hospitals
- Heat Hazards
  - Heat Stress
  - Burns
  - Dehydration
  - Sun Exposure
  - Hot Work Environment
- Light Hazards
- Chemical Hazards in Hospitals

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15. Radiation Hazards

- Ionizing Radiation
- Non-Ionizing Radiation
- Microwave Oven Radiation
- Ultrasound Therapy Equipment Hazards
- Hazards Associated with Lasers

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16. Infections in Hospitals

- Hospital Environment Infections
- Pathogenic and Non-Pathogenic Microorganisms
- Modes of Spread of Infection
- Types of Infection
- Cross Infection
- Precautions and Prevention of Infections

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17. Past Papers

- Past Paper 1
- Past Paper 2
- Past Paper 3
- Past Paper 4
- Past Paper 5
- Past Paper 6
- Past Paper 7