



G.D.GOENKA PUBLIC SCHOOL SRINAGAR

Subject:IT

Dated:30-8-2021

Topic: ICT SKILLS

1. Which software are used in digital communication?

Ans.: We use computers for email, chatting, FTP, telnet and video conferencing which means Digital communication. The software used are Skype, Whatsapp, Gmail, Facebook, Instagram etc.

2. For what purpose is IT used in business?

Ans.: a) Computers are used in business organisations for payroll calculation, budgeting, sales analysis, financial forecasting, managing and maintaining stocks.

b) A lot of business transactions happen through Internet called e-commerce.

c) IT helps in marketing, customer visit, product browsing, tax and shopping, receipt and process order, Online banking, ticket booking etc.

3. Which are the prominent areas where IT is used in science and engineering?

Ans: Scientists and engineers use computers for

- performing complex scientific calculations. CAD or CAM applications are used for drawing, designing and for simulating and testing the designs.
- for storing large amount of data, performing complex calculations.
- Complex scientific applications like rocket launching, space exploration, etc.

4. List the various uses of IT in a banking system. **Ans:** Every activity of a bank is now online, like:

- The customer's data and transactions are recorded by computers.
- Recurring deposits, Fixed deposits, money transfer from one account to another (NEFT, RTGS), online transactions are done using Internet.
- Capital market transactions, financial analysis and related services are available in online platforms.
- ATM is used for cash deposits and withdrawal.

5. Which are the different areas of healthcare where IT is used? And how? **Ans:** ICT is used in the health sector in numerous ways.

Hospital Management System is used to maintain and manage patients' records. The computerized machines are used for ECG, EEG, Ultrasound and CT Scan.

The variety of measuring instruments and surgical equipment are used to monitor patients' conditions during complex surgery.

Expert system is used for diagnosis.

(a) **Use of ICT in diagnosis** and treatment of critical diseases. Some of the machines used are:

(i) **Computerised Axial Tomography Machine (CAT):** Using this machine (3D) images of different parts of the body can be made.

- (ii) **MRI (Magnetic Resonance Imaging Machine):** MRI machines are used to give the digital impression of internal organs of the body by using strong magnetic fields and radio waves.
- (iii) **Electrocardiogram (ECG) Machine:** The ECG machine is used to monitor the heartbeat. It records the electrical impulses and shows it in the form of a graph.
- (iv) **Cardiac Screening Machine:** This machine displays the physiology of the heart and it displays the movements inside the heart.
- (v) **EEG (Electro - encephalography) Machine:** This machine is used to record the activities of the brain. The small electrical probes attached to the head receive the electrical impulses of the brain and display them on a computer screen.
- (vi) **Blood Sugar Testing Machine:** This device analyses a sample of blood and determines the blood glucose level.
- (vii) **Blood Pressure Measuring Machine:** This device is worn as a wrist band to measure the blood pressure of a person.