ICT Grade 10 – Unit 1: Practice Questions

1) Define data and information giving a suitable example.
2) What is an Information System?
3) Define functions of an Information System using a block diagram giving two examples.
4) Write down 5 characteristics of quality information.
5) Define ICT.
6) List 4 different fields where ICT is used.
7) **E-Government**
   a) What is e-Government?
   b) List 3 websites used for e-Government activities.
   c) Name the different e-Government categories with 2 of their service provided.

Category	Service
1. G2C	1. Payment of Utility bills
	2.
2.	1.
	2.
3.	1.
	2.
4.	1.
	2.

8) **Education**
   a) Describe the different ways that ICT helps you in Education.
9) **Health**
   a) Name the machine used to make **3D images** of different parts of the body?
   b) Name the machine that can create **digitized images** of internal organs the body using strong magnetic fields and radio waves?
   c) ………………………………. Machine records the electrical impulses of the human heart.
   d) ………………………………. Machine displays the physiology of the heart, displays the movement inside the heart helping to diagnose thinning of heart veins.
   e) Name the machine which is used to record the activities of the brain using electrical impulses.
   f) ………………………………. Used to analyse blood glucose levels.
   g) ………………………………. Used to measure the blood pressure.
   h) **Tele-Medicine**
      i) What is telemedicine?
      ii) List different advantages of telemedicine.
10) **Agriculture**
   a) Write 3 instances where ICT is used in Agricultural industry, along with the machine/technology used.

Instance	Machine/Technology
1. Farming	1. Metrological Devices
	2.
	3.
	4.
	5.
	6.
	7.
	8.
2. Farm House Management	1. 2. 3. 4.
3. Fishing Industry	1.

11) Manufacturing Industry and Business

    a) Write advantages and disadvantages of using robots in manufacturing industry.

    b) List different areas where robotic technology is used in production.

    c) Write short notes on the following.

        i) Video Conferencing

        ii) Human Resource Management

        iii) E-Banking

        iv) Online Shopping

    d) What are the advantages of online shopping?

12) Transport

    a) Write down the different applications of ICT in the field of Transport.

13) Entertainment

    a) List down how ICT is used in Entertainment.

14) Write down 5 demerits of ICT?

15) Evolution of the Computer

    a) Name the first calculating device.

    b) The world's first ever mathematical machine (performed addition and subtraction only) ……………………………. was invented by …………………………..

    c) ………………………………………. improved the Pascaline to perform multiplication and division.

    d) ………………………………………. invented ……………………………………… using ……………………………………………………

    e) ……………………………………….. who is also called the "Father of Computing" invented ………………………………… using the concepts input, process, output and storage.

    f) Who is the first programmer?

    g) ………………………………………. Invented the ……………………………………………………………………………………. also named MARK I.

16) Computer Generations

    a) Name the computer generations with its main HARDWARE, SOFTWARE and one major CHARACTERISTIC.

Computer Generation	Hardware Technology	Software Technology	Characteristic

17) Write down the characteristics that increased and decreased over computer generations.