Grade 10 | Information & Communication Technology | Essay Paper

1. Assume that your friend says "telemedicine is taking medicine from home by contacting a doctor over a phone." Explain why your friend's statement is incorrect. Write down an example to illustrate the correct use of telemedicine. (2015)

2. Geetha uses an Automated Teller Machine (ATM) to withdraw money from her bank account. First she inserts the ATM card into the machine and enters the secret pin code. Then she enters the amount of money she wants to withdraw. The system checks the balance available in her account and dispenses money as the balance available in her account is more than the amount of money Geetha wants to withdraw. At the same time the system updates the balance available by deducting the amount of money dispensed from the previous balance.
From the above scenario, write down an example each for input, processing and output. (2016)

3. A company with the head office in Colombo and three branches in Kandy, Matara and Jaffna decides to conduct monthly branch managers' meetings using the video conferencing technology. (2016)

   A. Write down one advantage of using the video conferencing technology for the company.
   B. Write down one problem the company may face when using the video conferencing technology.
   C. Currently the above company uses printed letters and memos to communicate with its employees. It decides to use modern technology to replace the current method of communicating with employees. Recommend a suitable messaging technology for this propose.
   D. In addition to the video conferencing and your recommendation in above (c) state two other methods the company can use to communicate with its employees using modern technology

4. Sama goes to a bookshop to buy 3 exercise books and 2 pens. After finding the items, she takes them to the counter where the sales assistant scans the bar code stickers attached to each item into the information system in the shop. Quantities of each item are also entered into the system. The system calculates the cost far each item and the total cost of all the items. Then the system prints the bill for the transaction.
(2017)

   Write down one example each for input, process and output of the information system.

5. The Colombo Weather Centre records daily rainfall values for one month.
Write down two examples for information that can be found by processing the above mentioned daily rainfall data. (2019)

6. To facilitate student learning, a school principal wants to start a Learning Management System (LMS) in her school using an unused, new computer. Write down one benefit that students can obtain through this LMS. (2019)

7. A manager in a Colombo office wants to have a meeting with managers in Jaffna and Matara offices using a video conference. Write down the requirements that are needed in these locations in order to use this facility. (2019)

8. The book shop in your school operates with a computer-based information system. When a student goes to buy stationery, the clerk enters the item code and the quantity of each item the student wants to buy. The system then calculates the total cost for each item and the total bill value. Then the system displays the final bill on the screen and prints it. Using the above scenario answer the following questions. (2019)
   A. Write down one input.
   B. Write down one process.
   C. Write down one output.

9. It has been a common practice to use Learning Management Systems (LMS) to manage both schools and higher education institutes. Write down two facilities provided by an LMS for students. (2020)

10. Nimal logged into an online banking system to transfer money to his son. Nimal entered the account number of his son and the amount to be transferred. The system requested a PIN (Personal Identification Number) to approve the transaction. After verifying the PIN number, the system displayed all the transfer details and obtained the final approval (OK) from Nimal. After successful completion of the transaction, Nimal received an e-receipt. (2020)
Write down two inputs, two processes and two outputs of the above scenario.