Holiday Assignments 01

Section Name
Sinhala Senior Section

Subject: ICT	Grade: 10	Medium: Sinhala

1. Which statement from the followings, regarding data and information is true?
   a. Raw facts and figures are called data.
   b. Meaningful raw data is called information.
   c. Processed meaningless data is called information.
   d. 101102 is an example for information.

2. Consider the following statements.
   A. First generation computers were based on vacuum tubes.
   B. Second generation computers were based on transistors.
   C. Third generation computers were based on transistors.
   D. Fourth generation computers were based on microprocessors.
   Which of the above is\are true?
   a. All
   b. B and C
   c. A,B and D
   d. A,C and D

3. What was the first machine which could perform all mathematical calculations, store values in memory and perform logical comparison among values?
   a. Abacus
   b. Analytical engine
   c. Edvac
   d. Enivac

4. Which statement from the following cannot be considered as information?
   a. 176, 171, 169, 178
   b. The average height of a student is 165.35 cm
   c. The maximum height of students is 178cm
   d. The minimum height if student is 161cm.

5. Which of the following considered as raw data?
   a. Marks obtained by a student in a class.
   b. Sorted lists of marks obtained by students in a class.
   c. Maximum marks obtained by students in a class.
   d. Average marks obtained by students in a class.

6. First generation computers were based on
   a. Vacuum tubes
   b. Transistors
   c. Integrated circuits
   d. Microprocessors

7. Which of the following does not contain information?
   a. A weather report
   b. A time table

c. A price list displayed in a super market

d. An unlabeled chart

8. A doctor monitors the temperature of a patient having fever over a five hour period by

A- Laying the hand on the patient's forehead at an hourly interval.

B- Asking the patient patients about the fever condition at an hourly interval.

C- Drawing a graph using the readings obtained by a thermometer at an hourly interval.

Which of the above gives the doctor, information about the patients fever condition?

a. Only A
b. Only B

c. Only C
d. All A,B and C

9. The invention of the integrated circuits marked the start of the ….. Generation of computer.

a. First
b. Second

c. Third
d. Fourth

10. "As vacuum tubes were replaced by transistors and transistors were replaced by microprocessors, the (**A**) of the computers reduced"

Which of the following terms is appropriate for (**A**)?

a. Capability
b. Size

c. Reliability
d. Efficiency

11. "(**B**) is processed into (**C**) by information systems"

Which of the following pairs of terms is appropriate for (**B**) and (**C**), respectively?

a. Information, data
b. Data, information

c. Data, instructions
d. Instructions, information

12. Which of the following can be classified as data in comparison with information?

a. Average monthly temperature in the city of Anuradhapura
b. A pie chart showing percentage of male and female students in a school.
c. Last four digits of a residential telephone number.
d. Maximum mark obtained for mathematics by grade 5 students.

13. Which of the following represents the correct order of evolution in computer processor technology?

a. Transistors, integrated circuits, vacuum tubes
b. Transistors, vacuum tubes, integrated circuits
c. Vacuum tubes, integrated circuits, transistors
d. Vacuum tubes, transistors, integrated circuits

14. Consider the following:

A- Marks obtained by a student for mathematics.

B- The average marks for mathematics of all students.

Which of the following is correct in relation to the above?

a. Both **A** and **B** represents data.

b. Both **A** and **B** represents information.

c. While **A** represents data. **B** represents information.

d. While **A** represents information. **B** represents data.

15. Consider the following conversion of data into information.

Data ⟶ X ⟶ information

Which of the following is most suitable to replace **X**?

a. Displaying

b. Processing

c. Programming

d. Testing

16. With the development of technology the vacuum tubes were replaced by transistors. Which of the following is correct regarding the resultant changes to the computer?

a. Speed decreased, power consumption increased and size decreased

b. Speed decreased, power consumption increased and size increased

c. Speed increased, power consumption decreased and size decreased

d. Speed increased, power consumption decreased and size increased

17. In the evolution of computers, the vacuum tube was replaced by the transistor and the transistor was later replaced by the integrated circuit (IC), in this process, the (**A**) of the computer increased while the (**B**) decreased.

The suitable term for (**A**) and (**B**) are respectively.

a. Efficiency, physical size

b. Efficiency, reliability

c. Physical size, efficiency

d. Physical size, cost

18. Which of the following statements is/are true regarding Telemedicine?

A- The internet or other network systems are used to maintain the connection between the doctor and the patient.

B- Patients in local medical institutions with network connections could be remotely examined by specialist doctors residing in distant locations.

C- Telemedicine could be used to improve the efficiency of clinical, medical health education, administrative and research activities.

a. A only

b. A and B only

c. A and C only

d. All, A, B and C

19. Which of the following can be considered as transactions that can be performed using the Internet?

A- Placing an order to send gift items to friends

B- Requesting to reserve accommodation for a holiday

C- Placing an order for a preferred dress after a fit on

a. A and B only

b. A and C only

c. B and C only

d. All A, B and C

20. Consider the following statements

   A- A student obtains medical advice from a doctor by contacting him over the telephone.

   B- An automated system, based on the humidity and temperature releases water to plants in a greenhouse.

   C- A teacher purchases a book which is not available in Sri Lanka, from an online book shop.

   Which of the above use the ICT effectively?

   a.   A and B only
   b.   A and C only
   c.   B and C only
   d.   All A, B and C

21. What was the effect when vacuum tubes were replaced by transistors and later transistors were replaced by integrated circuits in the CPU?

   a.   Both processing power and electricity consumption increased.
   b.   Processing power increased while electricity consumption decreased
   c.   Processing power decreased while electricity consumption increased
   d.   Both processing power and electricity consumption decreased.

Part-02

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(01) Write briefly of the use of ICT for industrial processes.

(02) List 3 instances where ICT is heavily used.

(03) Write short notes on improving the efficiency of Sri Lankan workforce using ICT.

(04) Write in one sentence the difference between raw data and information.

(05) Write short notes on the use of ICT to develop the agriculture sector of Sri Lanka.

(06) Write short answer

   a.   List 2 developments in Information and communication Technology which make it easier for students to carry out their educational activities from home.

   b.   Environmentalists plan to test a lake for water pollution. State 2 advantages of using a computer to do this rather than doing it manually.

(07) Write briefly on the following

   a.   Exploiting ICT to develop tourism in Sri Lanka.

   b.   The advantages of computerizing the process of issuing vehicle licenses.

(08) Write 2 advantages of using ICT in processing and releasing G.C.E(O/L) examination results.

(09) Explain how the health sector has benefited from ICT using 2 examples.

(10) Describe how ICT can be used in teaching and learning process. Your answer should include 2 examples.

(11) Explain how farming in Sri Lanka should be improved by using ICT. Provide three examples.

(12) A shop selling handicraft items considers starting an online business. List 3 advantages the shop would gain by selling online.

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(13) Telemedicine allows investigation, monitoring and management of patients from remote locations.
   a. List one advantages of telemedicine in addition to the remote accessibility.
   b. List one challenge in using telemedicine.

(14) Briefly explain 2 examples for computer controlled systems in agriculture.

(15) "e-learning helps one to learn at his/her own speed compare to traditional classroom-based learning" do you agree with this statement? Briefly explain your answer.

(16) Briefly explain how ICT is used in the Government to citizen services. Your answer should include one example for each.

(17) A LMS (Learning Management System) is an application of ICT in education sector. Write down 2 other applications of ICT in the education sector.

(18) A LMS can be used to conduct the activities given in the following table more efficiently and conveniently.
   Therefore, the 3 categories students, teacher and school administration are benefited.

Activity Number	Activity
1	Registration of students
2	Marking students attendance register
3	Issuing of certificates
4	Conducting preliminary tests to assess students skills
5	Conducting school based assessments
6	Using multimedia enriched lessons for self-studying
7	Using multimedia enriched lessons to classroom teaching
8	Ability to access preferred lesson at a preferred time

Identify which category is mostly benefited by using the LMS for each of the above activities and write the respective category against the activity number.

(19) A company with the head office in Colombo and three branches in kandy, matara and Jaffna decides to conduct monthly branch managers meeting using the video conferencing technology.
   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 used 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 purpose.
   d. In addition to the video conferencing and your recommendation in above state 2 other methods the company can use to communicate with its employees using modern technology.