



ICT COLLEGE

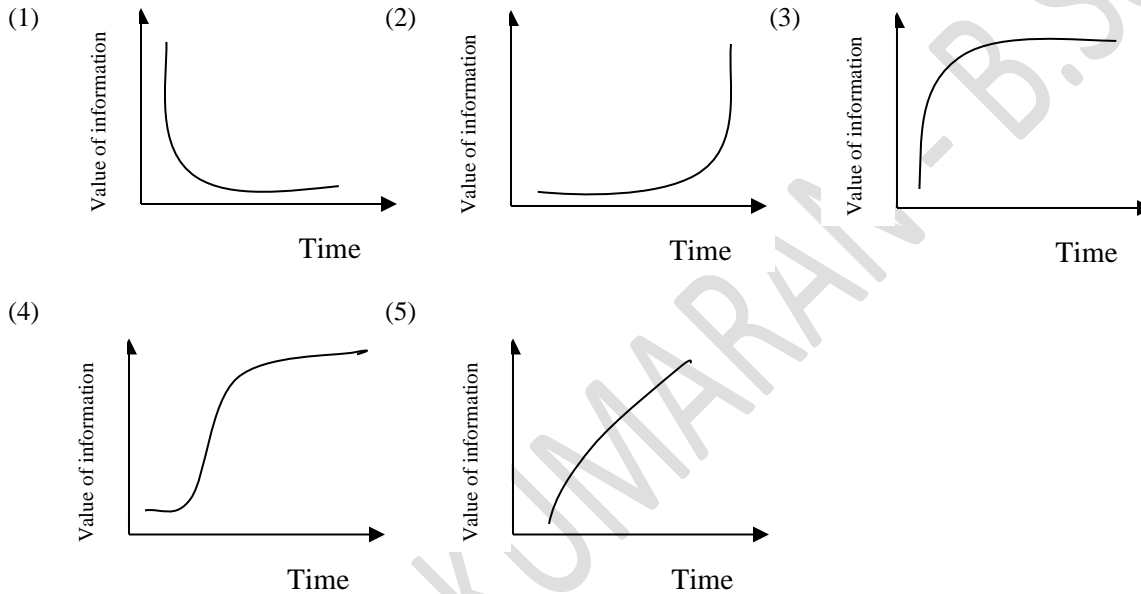
#74, Sabapathy Lane, Jaffna, Sri Lanka. 077 6577359

# G.C.E. (A/L) ICT

## Information System

**R.Kumaran – B.Sc.**

1. Which of the following graphs illustrates the golden rule of information?



2. The Sri Lanka cricket team won the T-20 world cup-2014 tournament. The Sri Lankan cricket fans had the highest value of this information when.....

- (1) The final match started.
- (2) Thisara Perera scored the winning run.
- (3) The captain Lasith Malinga received the trophy.
- (4) They saw the news on the newspapers.
- (5) they saw the cricket team at the Katunayaka Airport

3. Which of the following systems should always be based on Artificial Intelligence?

- A – Expert system
  - B – Enterprise Resource Planning (ERP) Systems
  - C – Transaction Processing Systems (TPS)
  - D – Geographical Information Systems
- (1) A only                      (2) A and C only                      (3) A and D only                      (4) B and D only                      (5) C and D only

4. Consider the following statements about an automated system:

- A – Human intervention is not required or minimally required
- B – All the operations of the machine are controlled by the microchip installed in the machine
- C – Systems which control the processing of machineries may be the example for automated system

Which of the above statement(s) is/are correct?

- (1) A only                      (2) A and B only                      (3) A and C only                      (4) B and C only                      (5) All A,B and C

5. Consider the following systems:

A - Human blood circulatory system

B - Human digestive system

C - Human nervous system

The system(s) that can be consider as open system(s) is/are

- (1) A only                      (2) B only                      (3) C only                      (4) A and B only                      (5) A and C only

6. Consider the following statements about information system.

A - Information system could be used to achieve the goals designed for an organization

B - Information system could be either computerized or manual

C - Banking system may be an example for information system

Which of the above is /are correct?

- (1) A only                      (2) B only                      (3) C only                      (4) A and B only                      (5) A and C only

7. Which of the following can be considered as an expert system?

(1) A bank teller machine

(2) A fully automatic washing machine

(3) A microwave oven

(4) A diagnosis system of a health care facility

(5) An electronic blood pressure meter

8. Consider the following systems in a human body:

A - Respiratory system

B - Digestive system

C - Nervous system

D - Blood circulatory system

Which of the above are closed systems?

- (1) A and B only                      (2) A and C only                      (3) B and C only                      (4) B and D only                      (5) C and D only

9. Which of the following statements is true with regard to data and information?

(1) Decision can be made only when a massive volume of data is available

(2) Validity of information depends on the accuracy of data

(3) Information obtained by processing data is always accurate

(4) In order to obtain information, data must be collected from multiple sources

(5) The accuracy of information depends only on the accuracy of input data

10. Human blood circulatory system can be classified as a.

(1) Natural and closed system

(2) Artificial and closed system

(3) Artificial and open system

(4) Natural and open system

(5) Natural and artificial system

11. An electronic washing machine can be best considered as a/an.

(1) Information system

(2) Automated system

(3) Expert system

(4) Management support system

(5) Transaction processing system

12. Consider the following terms:

A – Input

B – Output

C – Process

D – Storage

Which of the above are **essential** for a system?

- (1) A and B only (2) A, B and C only (3) A, C and D only (4) B, C and D only (5) All A, B, C and D

13. Which of the following is a classification of system?

- (1) Close and hybrid  
(2) Natural and structured  
(3) Open and close  
(4) Open and structured  
(5) Structured and hybrid

14. A banking system could be best considered as a/an.

- (1) Embedded system (2) Enterprise resource planning system  
(3) Expert system (4) Knowledge management system  
(5) Transaction processing system

15. A manager of an engineering manufacturing company is considering whether to recruit more people in the near future. What is the most relevant information in this case he has to consider?

- (1) Personal records of all the employees  
(2) Previous report of all the recruited people  
(3) The attendance sheets of all the employees  
(4) Detailed reports of engineering specification and manufacturing orders  
(5) Summary reports of present and projected personnel requirements

16. Which of the following statements is correct respect to openness and closeness of a system?

- (1) An automatic teller machine of a bank should be a close system  
(2) A general purpose computer can be considered as an open system  
(3) Human blood circulatory system is an open system  
(4) A mobile phone is a close system  
(5) A solar power generation system is a close system

17. Which of the following can be considered as a closed system?

- (1) Blood circulatory system (2) School (3) University  
(4) Refrigerator (5) Human respiratory system

18. The Automated Teller Machine (ATM) can be considered as an example of a:

- (1) Transaction processing system (2) Expert system  
(3) Management information system (4) Decision support system  
(5) Executive support system

19. Which of the following is a/are characteristic(s) of quality information?

- (1) Complex (2) Reliable (3) Accurate  
(4) Relevant (5) Economical

20. The following statements are about specialized information systems

A - Robotics is useful to be used in situations that are dangerous to humans

B - Expert systems are useful to diagnose pests and diseases in rice crops

C - Artificial intelligence systems demonstrate the characteristics of intelligence

Identify the correct statement/s.

- (1) A only                      (2) B only                      (3) C only                      (4) A, B only                      (5) A,B,C all

21. A Transaction Processing System (TPS) is not appropriate to.

- (1) process large volumes of data
- (2) an order processing system
- (3) diagnose illnesses
- (4) a system used to purchase goods on-line
- (5) a payroll system

22. Which of the following is not a characteristic of information?

- (1) It is generated after processing data
- (2) It should be accurate
- (3) It consists of raw data
- (4) It is useful for decision making
- (5) It should be relevant

23. Which of the following definitions refers to 'timeliness' which is a characteristic of valuable information?

- (1) Ability to use the information for a variety of purposes
- (2) Contain all important facts
- (3) Error free information
- (4) Deliver information when it is required
- (5) Ability to verify whether the information is correct

24. Which of the following can be considered as an embedded system?

- (1) Banking system                      (2) Payroll system                      (3) Flight control system
- (4) Purchasing system                      (5) Sales system

25. Consider the following statements.

A - Business organization is an example of a closed system

B - Converting inputs to outputs is known as processing

C - System is always considered as a computerized

Which of the above is/are correct regarding a system?

- (1) A only                      (2) B only                      (3) A, C only                      (4) A,B only                      (5) A,B,C all

\*\*\*\*\*

1. What is a system?

.....  
.....  
.....  
.....

2. Is a cellphone a system? Justify your answer.

.....  
.....  
.....  
.....

3. Is a cellphone an open system? Or closed system? Justify your answer.

.....  
.....  
.....  
.....

4. Write down six components of a computer-based information system.

.....  
.....  
.....

5. Write down two advantages and disadvantages each of an expert system.

**Advantages**

.....  
.....

**Disadvantages**

.....  
.....

\*\*\*\*\*