

8. Here are the steps of connecting to the internet by scanning the QR code

A	Opening the website	B	Scanning the QR code
C	Decoding and connecting to website		

What is the answer when they are arranged in the order of input process and output?

1. ABC 2. BCA 3. CBA 4. BAC

9. What is **not** an advantage of using online shopping.

1. Open round the clock of 24 hours 2. Payments possible via debit cards
 3. Ability to buy the item from the shop itself 4. Ability to observe items before buying

10. What is the answer having only the special characteristics of the computer

1. accuracy, confidentiality, intelligence, speed
 2. speed, accuracy, non-intelligence, versatility
 3. versatility, intelligence, accuracy, not versatile
 4. speed, accuracy, intelligence, versatility

11. What is the correct answer when the statements in column A are matched with the computer types in column B

Column A	Column B
Produced for personal use and is portable	A Mainframe Computer
A powerful computer type used in nuclear events, space exploration etc.	B Tablet Computer
A computer having a number of terminals	C Super computer
A type of multi-tasking computer very popular at present	D Laptop Computer

1. DCAB 2. DCBA 3. DABC 4. DBAC

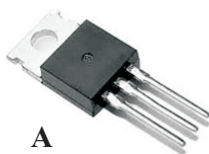
12. What is the first computer in which punch cards were used in the evolution of computer

1. Pascaline 2. Analytical Engine 3. Mark I 4. ENIAC

13. What is the **irrelevant** statement regarding the first generation computers

1. computer are large in size 2. High heat generation
 3. Birth of operating systems 4. Low data processing speed

14. Given below are the data processing units used in the evolution of the computer. What is the answer when they are arranged according to the generations



A



B



C



D

1. DCAB 2. BACD 3. BADC 4. CDAB

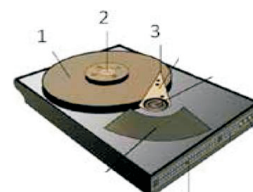
15. Consider the following statements regarding the computer architecture

- A. Data and instruction fed to the computer are sorted in the primary memory for processing
 B. The Control Units in the processor issues control signals to all the components attached to the computer system
 C. Data and instructions are sent to the Arithmetic & Logical Unit from the main memory for calculation

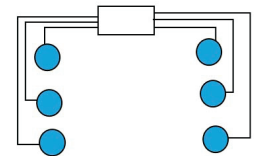
What is the answer with correct statements from those given above?

1. A and B 2. A and C 3. B and C 4. A, B and C

16. What is the answer that shows the technological equipment used in computer generations for processing data according to the **descending order of processing speed**
1. vacuum tube, transistor, integrated circuit, LSIC , VLSIC
 2. LSIC, VLSIC, vacuum tube , transistor, integrated circuit
 3. vacuum tube , transistor, LSIC, VLSIC, integrated circuit
 4. VLSIC, LSIC, integrated circuit ,transistor , vacuum tube
17. What is the correct statement from those given below regarding input devices
1. devices used to input data to computer
 2. devices used to input instructions to the computer
 3. Devices used to input both data and instruction to th computer
 4. Devices used to output processed data
18. Select the pair of output devices used in the computer system
1. keyboard and mouse
 2. printer and monitor
 3. monitor and web-cam
 4. speaker and microphone
19. The scientists who processed the adding machine and the analytical engine respectively
1. Blaise pascal and John Napier
 2. Charles Babbage and Bill Gates
 3. Blaise pascal and Charles Babbage
 3. Charles Babbage and Blaise pascal
20. What is the correct answer that shows the correct functions of the OCR And MICR
1. To recognize optical characters and to examine multiple choice questions
 2. To examine multiple choice questions and to check the number in checks
 3. To check the number in checks and character recognition
 4. Character recognition and to check the number in checks
21. Consider the following expression.
Tharindu chats with a friend abroad using the web cam and microphone in the computer. The two devices used respectively by Tharindu belong to.
1. an input device and an output device
 2. two output devices
 3. two input devices
 4. output devices and input devices
22. Some factors that you should consider when using a printer are given below
- A. higher quality
B. Less cost for printout
C. Much time taken to get printouts
1. A and B
 2. A and B
 3. B and C
 4. A, B and C
23. What answer shows the technology used in hard disk , DVD and magnetic tape respectively
1. magnetic , optical, optical
 2. optical, magnetic, optical
 3. magnetic , optical ,magnetic
 4. magnetic ,optical, solid state
24. Given below is the diagram of the interior of hard disk what is the correct answer showing the components numbered 1, 2, and 3
1. platter, spindle, head
 2. spindle, head, platter
 3. head, platter, spindle
 4. platter, spindle, actuator



25. Consider the following statements
- A. Television is an example for full duplex transmission
B. Telephone is an example for half - duplex data transmission
C. Radio is an example for simplex data transmission
1. A and B
 2. A and C
 3. Only C
 4. A, B and C
26. What is the fastest data transmission mode having light signals to transmit data that does not influence magnetic waves
1. coaxial cable
 2. fiber optic
 3. twisted pair cable
 4. micro waves



27. What is the network topology shown by the diagram given below
1. star topology
 2. bus topology
 3. ring topology
 4. mesh topology
28. Amila with an aim to expedite the work of his institute suggested to network all the computers in it. What is **not** an advantage Amila can get by networking the computers
1. ability to share the resources in one computer with the others
 2. ability to control all the computers centrally
 3. less electricity consumption
 4. ability to share data and information between computers
29. The pupils of the ICT society of Dewapura vidyalaya networked all ten computers of clerical staff with a switch at the office as a project
What is the answer showing the network topology used by them together with the network type according to geography distribution of computers in the network
1. bus topology and local area network
 2. star topology and wide area network
 3. Ring topology and local area network
 4. Start topology and local area network
30. What is the answer having only valid BCD codes?
1. 1100, 1010, 1000, 1001
 2. 1001, 0010, 0111, 1000
 3. 1010, 1011, 1001, 0101
 4. 1001, 1110, 1010, 1100
31. Select the least significant digit (LSD) of the decimal number 30.54210.
1. 0
 2. 1
 3. 2
 4. 3
32. What is the decimal equivalent to the binary number 101101
1. 22
 2. 40
 3. 44
 4. 45
33. what is the binary equivalent to the decimal number 63
1. 11110₂
 2. 11111₂
 3. 100010₂
 4. 101010₂
34. A pupil has scored 65 for Mathematic and 72 for English what answer shows the total of those two marks as a binary number
1. 100010111₂
 2. 10001001₂
 3. 1001000₂
 4. 10010011₂
35. what is the binary equivalent to the octal number 674?
1. 110101100₂
 2. 111011100₂
 3. 110111100₂
 4. 110111101₂
36. Select the answer that includes the assenting order of the number 76₈, 52₁₀, A3₁₆ and 564₈
1. 52₁₀, 76₈, A3₁₆, 564₈
 2. 46₈, 52₁₀, A3₁₆, 564₈
 3. 564₈, 52₁₀, 76₈, A3₁₆
 4. A3₁₆, 76₈, 52₁₀, 564₈
37. What is/are the number system /s that 1321_x belongs to
1. Octal
 2. octal and decimal
 3. binary, octal and decimal
 4. binary , octal, decimal and hexa decimal
38. What is the difference in hexadecimal, of the two decimal numbers 297 and 379 ?
1. A216
 2. 7816
 3. B216
 4. 5216
39. Which of the following is equivalent to 2MB
1. 2²⁰Bx2
 2. 2³⁰KBx2
 3. 2²¹KB
 4. 2x2x2²⁰B
40. Consider the statement given below
- A. Introduction of ICT as a bucket subject in grade 10
 - B. Introduction of General Information Technology as a compulsory subject at the A/L
 - C. Exchanging the ICT knowledge of rural children by establishing institutes like Nenasala and Computer Resource Centers
- What are statements that go a long way in developing the ICT literacy in Sri Lanka
1. only A and B
 2. Only A and C
 3. Only B and C
 4. All A, B and C

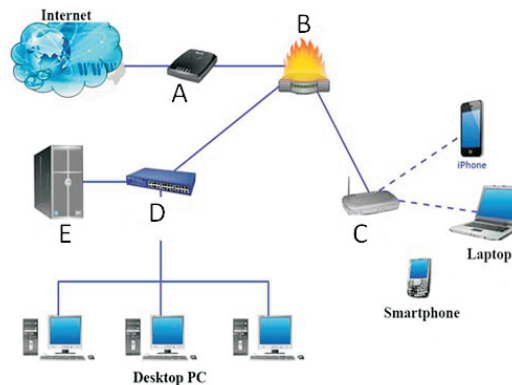
4. who wrote programs for the first computer is considered to be the worlds first computer programmer.
5. Punch card system which was invented by can be introduced as a concept of sorting data in computer
(Ada augusta Lovelace, Joseph jacquard, punched card, Blaise pascal, storage, mouchly & Eckert)
(marks 1x5 = 5)

B. Many significant changes have occurred during the evolution of the computer form the first generation to the fifth generation

1. Write down three technological changes that came in to being during the evolution of the computer
(mark=1x3)
2. The computer which evolved with the three basic concepts of input, process and output has now developed to a level of doing complex tasks like v,oice recognition character recognition and etc.
Write down two advantages in the fifth generation computers when compared with early computer generation
(mark=1x2)

04. The teacher in charge of ICT in Idoregama Maha Vidyalaya wants to connect all the ten computers in the computer lab in order t build a network.

- A. 1. Name three types of computer networks among them and name the most suitable type of network for the computer lab of Idoragama Maha Vidyalaya
(mark=1)
 2. The teacher further says that a network switch is more suitable than a hub to develop a network. Write down a reason for her statement..
(mark=2)
 3. Name four network topologies and Draw two of them.
(mark=2)
- B. write answer with the help of the following diagram



1. Name the components named A, B, C and E in the above diagram
(mark=2)
2. Describe the function of A in the above network
(mark=1)
3. Write down two advantages and two disadvantages of computer network
(mark=2)

05. A. The base value of a number system is determined by the number of digits used in it. fill in the following table, according to that.

Base value of the number system	The maximum number of digit used in the number system
1 2	.....
2 	7
3 10	.....
4 16	.....

- B. Ravindu got.Rs.500 from his mother to buy a book. The price of the book is Rs.606_{eight} .from the balance he bought two pens that cost F_{sixteen} each.
1. write the price of the book as a decimal number (mark=2)

2. Write the total amount of money he spent for the book and the two pens as a decimal number. (mark=2)
3. Write the balance he got after purchasing them as a binary number. (mark=1)
4. Write the most significant digits (MSD) and the least significant digits (LSD) of the numbers given below.

Numbers	MSD	LSD
31
12.500
0.0032

06. A. Mention whether the following statements are true / false.
- a. If the base value of a certain number system is n , the highest digit it can represent is $(n + 1)$.
 - b. Any digit in the octal number system can be represented by three binary digits.
 - c. There are only two digits common to all the four number systems: binary, octal, decimal, and hexadecimal.
 - d. The number of characters represented by ASCII coding system is greater than those represented by EBCDIC coding system.
 - e. The characters in the languages Sinhala and Tamil can be represented by Unicode. (mark=1x5)
- B. The number of characters are determined according to the number of bits used in different coding systems. Complete the following table accordingly.

	Coding System	Number of bits used	Number of characters represented
A	BCD	.....	.....
B	ASCII	.....	.....
C	EBCDIC	.....	.....
D	Unicode	.....	.....

- C. If in ASCII coding system 'D' is represented by '1000100', write the ASCII code used to represent 'F'. (mark=1)

07. 1. Write two uses a person can achieve by studying information communication technology in the present society.
2. Write two advantages of computerizing the daily activities in a certain institute.
 3. Write two factors to be considered when buying a computer.
 4. Write two advantages of surfing internet as a pupil.
 5. Name two world-popular computer manufacturing companies. (mark=2x5)

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