



Online Exams

Sri Lanka Institute of Information Technology

Question 21

Not yet answered

Marked out of  
0.0

\* Flag question

A special request originated from some device to the CPU to acquire some of its time is called

Interrupt

 Online Exams

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What does a Protocol define?

Select one:

- Protocol defines what data is communicated.
- Protocol defines how data is communicated.
- Protocol defines when data is communicated.
- Protocol defines why data is communicated.
- None of the mentioned is true.

 SLIIT

Online Exams  
Sri Lanka Institute of Information Technology

Question 1  
Not yet answered  
1 out of  
1 question

In a ..... topology there are cables connecting each device to all the other devices in a network.

Select one:

- Mesh
- Star
- Bus
- Ring
- Tree

Next Page



**Question 2**

Not yet answered

Marked out of  
1.25

Flag question

Convert 1520 bits into bytes

Select one:

- a. 190 bytes
- b. 180 bytes
- c. 182 bytes
- d. 175 bytes
- e. 152 bytes



**Question 1**

Not yet answered

Marked out of  
1.00

Flag question

In a regular network, which of the following can be a Software?

Select one:

- Router
- Firewall
- Modem
- Hub
- Switch



**Question 1**

Not yet answered

Marked out of  
1.00

Flag question

In a regular network, which of the following can be a Software?

Select one:

- Router
- Firewall
- Modem
- Hub
- Switch

 Sri Lanka Institute of Information Technology

Which of the following statement is true?

Select one:

- a. IP Address is a physical Address 
- b. MAC Address is logical address 
- c. IP Address is a logical Address and MAC Address is a physical Address 
- d. IP Address is a physical Address and MAC Address is a logical Address 
- e. Both IP and MAC addresses are virtual addresses 

[Next page](#)

Online Exams

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Question 1  
Not yet answered  
Marked out of 1.25  
Flag question

Mutability of storage devices explains

Select one:

- a. How storage locations are addressed.
- b. What happens to the content when power is not available
- c. How storage locations are addresses
- d. Time latency due to seek time and rotational delay
- e. Weather the content is read/write or read only.

Next page

Quiz navigation

MCQ

1	2	3	4
8	9	10	11
15	16	17	18

STRUCTURED

21	22	23	24	25
28	29	30		

ESSAY

31
----

FEEDBACK QUESTION

32

Online Exams

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Question 3  
Not yet answered  
Marked out of 1.00  
Flag question

Which of the following is NOT a correct statement regarding Firewalls?

Select one:

- a. A Firewall resides between two or more networks
- b. A firewall controls traffic and helps prevent unauthorized access
- c. Packet Filtering is a method used in Firewalls ✓
- d. URL Filtering is a method used in Firewalls ✓
- e. Firewall can provide 100% security to a network ✗



**Question 2**

Not yet answered

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1.25

Flag question

Which of these is not an activity the OS does to manage storage

Select one:

- a. Create and delete files
- b. Allocating storage
- c. Free-space management
- d. Hardware maintenance
- e. Backup

Next page



**Question 1**

Not yet answered

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Flag question

Select the correct statement.

Select one:

- A private network is not directly connected to Internet.
- If a network is directly connected to Internet, it will become a part of Internet.
- In a private network, it is mandatory to follow Internet standards.
- A private network is a set of interconnected Intranets.
- None of the given answers are true.

Next page

Hoodie

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on 1  
1 answered  
1 out of  
1 question

An attacker trying to manipulate individuals into performing actions or divulging confidential information is known as Social Engineering.

Select one:

True  
 False

Next page

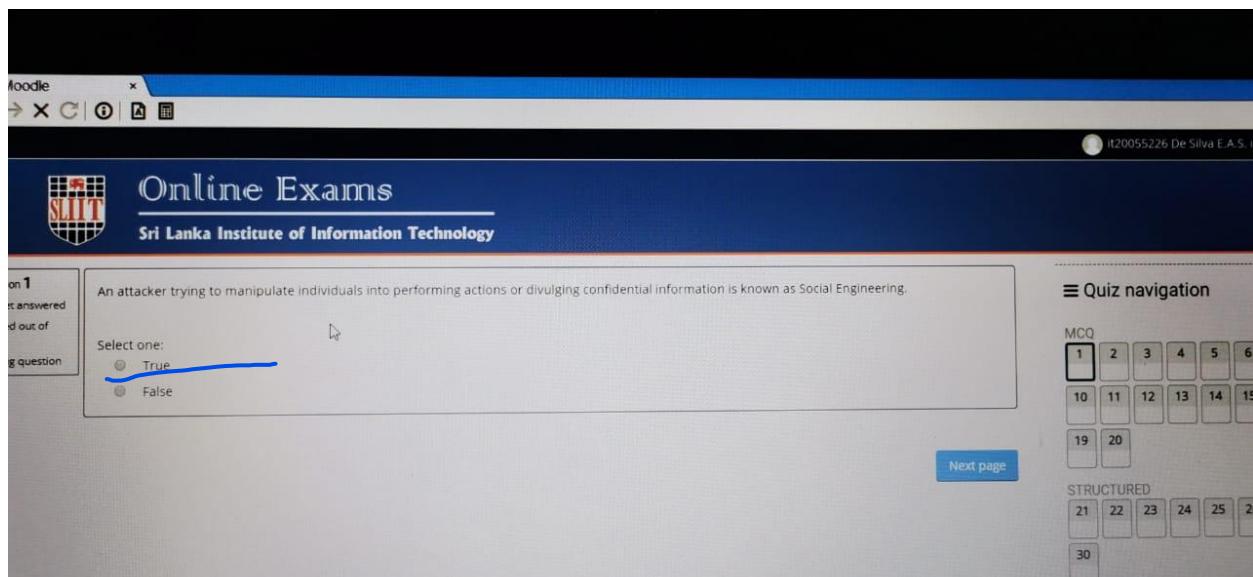
Quiz navigation

MCO

1	2	3	4	5	6
10	11	12	13	14	15
19	20				

STRUCTURED

21	22	23	24	25	26
30					



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Question 2

Not yet answered

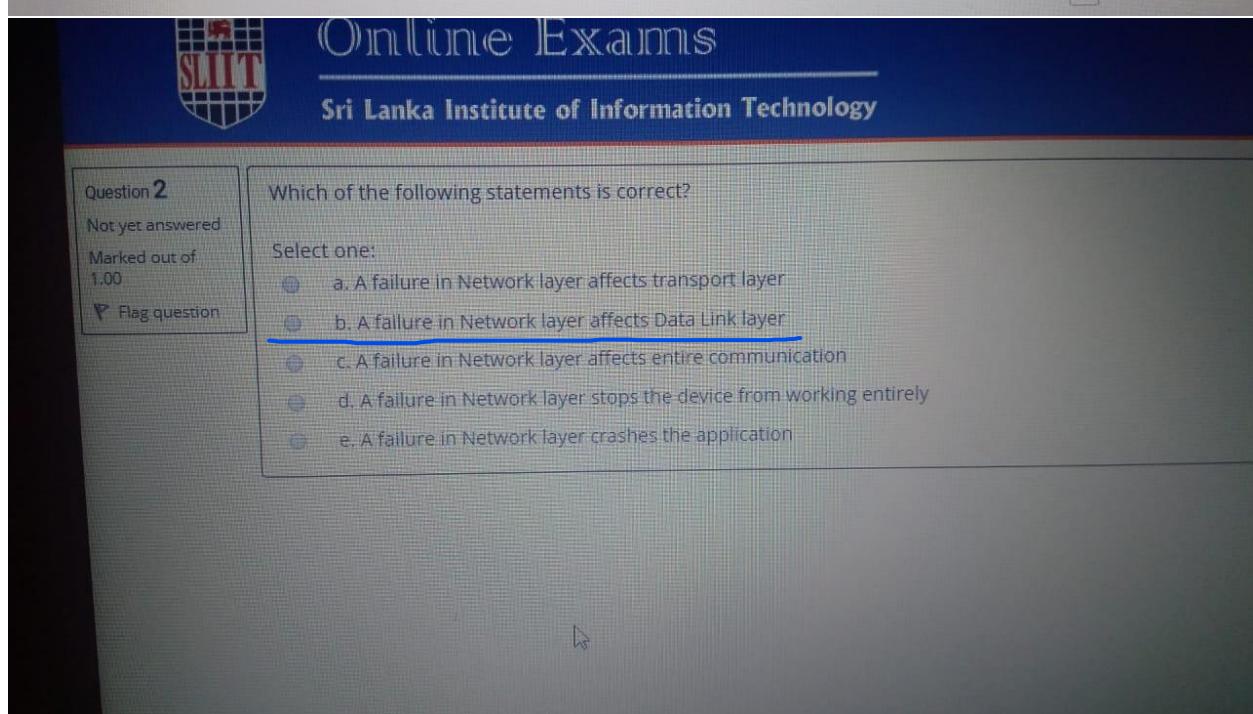
Marked out of 1.00

Flag question

Which of the following statements is correct?

Select one:

a. A failure in Network layer affects transport layer  
 b. A failure in Network layer affects Data Link layer  
 c. A failure in Network layer affects entire communication  
 d. A failure in Network layer stops the device from working entirely  
 e. A failure in Network layer crashes the application





## Online Exams

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**Question 2**

Not yet answered  
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1.00

Flag question

Which of the following statements is correct?

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Online Exams

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Select the correct order of ISO-OSI layered reference model.

Layer 7	Choose...	A pp
Layer 6	Choose...	Prot
Layer 5	Choose...	sess
Layer 4	Choose...	Trans
Layer 3	Choose...	Netwo
Layer 2	Choose...	Dat
Layer 1	Choose...	physic

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A S P I R E

Online Exams

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Select the incorrect statement regarding data

Select one:

- a. ASCII is an 7-bit code for 128 different characters ✓
- b. Data representation refers to the form in which data is stored, processed, and transmitted ✓
- c. Digitization is the process of converting analog data into digital data ✓
- d. Numeric, alphabetic, special, alpha-numeric are different types of character data ✓
- e. One-bit parity is an error correction technique used in data storing and transmission. ✓

Moodle x

→ X C | i | A |

SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Question 1  
yet answered  
ked out of  
Flag question

An unauthorized user is a network \_\_\_\_\_ issue.

Select one:

- security
- reliability
- scalability
- quality of service
- availability

Moodle x

→ X C | i | A |

**SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY**

Question 1  
yet answered  
ked out of  
Flag question

An unauthorized user is a network \_\_\_\_\_ issue.

Select one:

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- scalability
- quality of service
- availability

 Online Exams

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- e. A failure in Network layer crashes the application



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Steps of an instruction cycle is given below

- A. Instruction fetch (1)
- B. Data operation (4)
- C. Instruction operation decoding (2)
- D. Data store (5)
- E. Operand fetch (3)

Find the correct order of execution.

Select one:

- a. A, C, B, D, E
- b. B, A, C, D, E
- c. B, A, E, C, D
- d. D, C, A, B, E
- e. A, C, E, B, D

**C | E | A**

# Online Exams

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Select the correct elements/components that make up a network.

Select one:

- Service, Medium, Packet, Protocols.
- Device, Wire, Message, Rules.
- Service, Medium, Packet, Rules.
- Device, Medium, Message, Rules.
- Device, Medium, Message, Protocols.



## Question 4

Not yet answered

Marked out of  
1.00 Flag question

Devices on one network can communicate with devices on another network via. (Select two)

Select one or more:

- Router
- Multiplexer
- Hub
- Printer
- Gateway

Next



## Question 3

Not yet answered

Marked out of

 Flag question

Select the continuous data of the following

Select one:

- a. Number of members of a family.
- b. Pages of a book.
- c. Number of students in SLIIT.
- d. Average of the three Subjects.
- e. Number of subjects we learn.

Moodle

→ X C | i | A | E

## Online Exams

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Question 2

yet answered

Marked out of 2

Flag question

Which of the following statement is true?

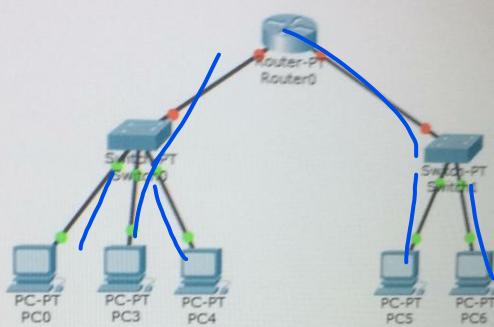
Select one:

- a. IP Address is a physical Address
- b. MAC Address is logical address
- c. IP Address is a logical Address and MAC Address is a physical Address
- d. IP Address is a physical Address and MAC Address is a logical Address
- e. Both IP and MAC addresses are virtual addresses



Not yet answered  
Marked out of  
1.00  
 Flag question

Which of the following statements describe the network shown in the graphic? (Select two)



Select one or more:

- There are total number of two broadcast domains in the network.
- There are total number of six broadcast domains in the network.
- There are total number of four broadcast domains in the network.
- There are total number of five collision domains in the network.
- There are total number of seven collision domains in the network.
- There are total number of four collision domains in the network.



## Online Exams

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4

answered

out of

question

Which of the following pairs denote the two main types that the RAM is

Select one:

- a. SRAM and DRAM
- b. SRAM and DDRAM
- c. SDRAM and SRAM
- d. DRAM and VRAM
- e. VVRAM and SRAM

Online Exams

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3  
Answered  
out of  
question

Steps of designing a digital circuit to solve a real world problem is given below:

A. K-maps are used to simplify the equations 4

B. The truth table is developed 3

C. Implemented using logic gates 5

D. The problem is analyzed 1

E. Identify input variables and output variables 2

Find the correct order of execution.

Select one:

a. A, C, B, D, E

b. D, C, B, E, A

c. B, D, E, C, A

d. D, E, B, A, C

e. A, C, E, B, D



The instruction currently being executed is stored in

Select one:

- a. Instruction register
- b. Instruction pointer
- c. Program counter
- d. Data register
- e. Accumulator



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Question 8

Not yet answered

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1.25

Flag question

What method is used to input data in the 1st generation computers from the given below

Select one:

- a. Floppy disks
- b. Flash drivers
- c. USB drivers
- d. Punch cards
- e. Compact disks

**C | E | A**

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Which of the following program converts instructions to machine language?

Select one:

- a. Compressor
- b. Compiler
- c. Integrator
- d. Simulator
- e. None of the above

Next

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Select the continuous data of the following

Select one:

- a. Number of members of a family.
- b. Pages of a book.
- c. Number of students in SLIIT.
- d. Average of the three Subjects.
- e. Number of subjects we learn.

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Question 9  
Not yet answered  
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 Flag question

Match the correct port category description to port numbers.

Well-known port numbers

Registered port numbers

Dynamic/Private port numbers

0 to 65535  
49152 to 65535  
0 to 1023  
1024 to 49151

 Online Exams  
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Answered  
out of  
question

An attacker trying to manipulate individuals into performing actions or divulging confidential information is known as Social Engineering.

Select one:

True  
 False

**SLIT** Online Exams  
Sri Lanka Institute of Information Technology

Question 19  
Not yet answered  
Marked out of 1.25  
Flag question

Steps of an instruction cycle is given below.

A. Instruction fetch 1

B. Data operation 4

C. Instruction operation decoding 2

D. Data store 5

E. Operand fetch 3

Find the correct order of execution.

Select one:

a. A, C, B, D, E

b. B, A, C, D, E

c. B, A, E, C, D

d. D, C, A, B, E

e. A, C, E, B, D

DELL



## Online Exams

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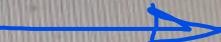
**Question 8**

Not yet answered

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1.25

Flag question

Which bus is unidirectional



Select one:

- a. Address bus
- b. Control bus
- c. Signal bus
- d. Current bus
- e. Data bus

Moodle

← → X C | O A

**Online Exams**

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Question 13

Not yet answered

Marked out of 1.25

Flag question

Development of software for computers was started in:

Select one:

- a. 1st Generation
- b. 2nd Generation
- c. 3rd Generation
- d. 4th Generation
- e. 5th Generation

# Online Exam

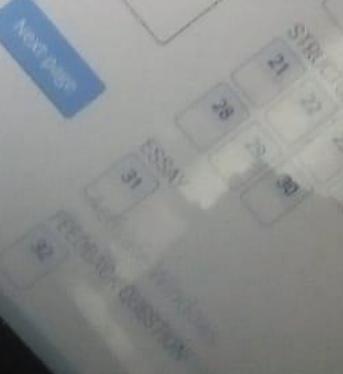
## Sri Lanka Institute of Information Technology

What is the correct statement about a Broadcast Domain?

Select one:

- A collection of two or more computers in which, when one sender sends a message, it is received by all the others in the same domain.
- A collection of two or more computers in which, when one sender sends a message, it is received by one receiver in the same domain.
- A collection of two or more computers in which, when one sender sends a message, it is received by all the others in a different domain.
- None of the mentioned is true.

Next page



**Online Exams**

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Question 5

Not yet answered

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Flag question

What would be the output of a comparator if two bits are equal?

Select one:

- a. 2
- b. 1
- c. 0
- d. 4
- e. 3

Select the incorrect statement

Select one:

- a. SPARC and Power PC are desktop computers that use RISC processors
- b. In RISC processors, more emphasis is given to software
- c. RISC normally has low cycles per second, large code sizes
- d. In CISC, more transistors are used for storing complex instructions
- e. Compiler workload is low in RISC based machines

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The instruction currently being executed is stored in

Select one:

- a. Instruction register
- b. Instruction pointer
- c. Program counter
- d. Data register
- e. Accumulator



Which of the following are NOT real time application scenarios? (Select Two)

Select one or more:

- a. Skype Video Conference
- b. Zoom live webinar
- c. Facebook live video
- d. What's App Call
- e. Downloading a movie using a file sharing application
- f. Downloading an email attachment from an Email App



### Question 10

Not yet answered

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1.25

Flag question

Not a utility software given below

Select one:

- a. Antivirus software ✓
- b. Troubleshoot ✓
- c. Disk formatting ✓
- d. Control panel
- e. Defragmentation ✓

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Select the incorrect statement

Select one:

- a. SPARC and Power PC are desktop computers that use RISC processors
- b. In RISC processors, more emphasis is given to software
- c. RISC normally has low cycles per second, large code sizes
- d. In CISC, more transistors are used for storing complex instructions
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Moodle

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Question 7

Not yet answered

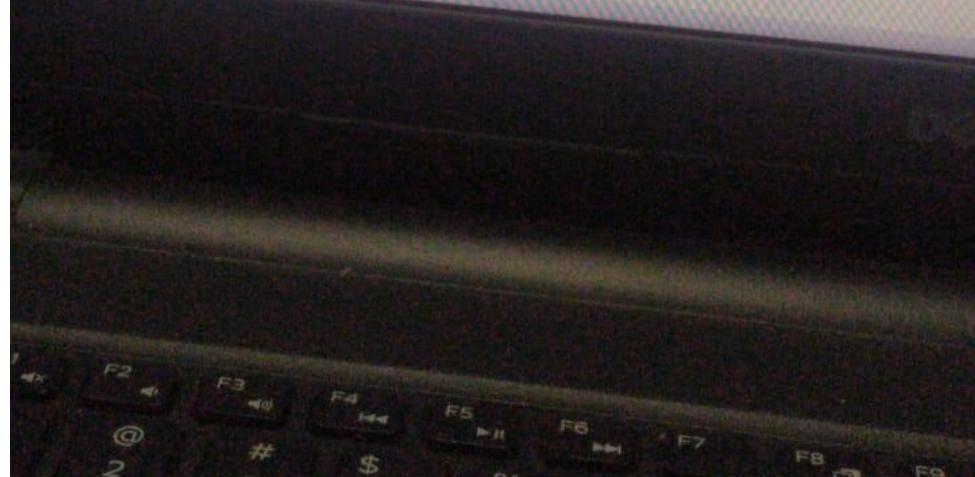
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Flag question

What does a Protocol define?

Select one:

- Protocol defines what data is communicated.
- Protocol defines how data is communicated.
- Protocol defines when data is communicated.
- Protocol defines why data is communicated.
- None of the mentioned is true.





## Online Exams

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### Question 11

Not yet answered

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1.00

Flag question

Which of the following statements is correct?

Select one:

- a. A failure in Network layer affects transport layer
- b. A failure in Network layer affects Data Link layer
- c. A failure in Network layer affects entire communication
- d. A failure in Network layer stops the device from working entirely
- e. A failure in Network layer crashes the application

### Question 10

Not yet answered

Marked out of  
1.00

Flag question

Select the correct statement.

Select one:

- A private network is not directly connected to Internet.
- If a network is directly connected to Internet, it will become a part of Internet.
- In a private network, it is mandatory to follow Internet standards.
- A private network is a set of interconnected intranets.
- None of the given answers are true.

### ≡ Quiz navigation

#### MCQ

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#### STRUCTURED

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26	27	28	29	30

#### ESSAY

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Given below are the features of first-generation computer systems. Which of the following isn't true

Select one:

- a. 1st generation computers used machine language ✓
- b. 1st generation computers had a well-developed OS system. ✗
- c. 1st generation computers were expensive to operate. ✓
- d. 1st generation computers used punch card system. ✓
- e. 1st generation computers used hard wired programming. ✓

[Next page](#)



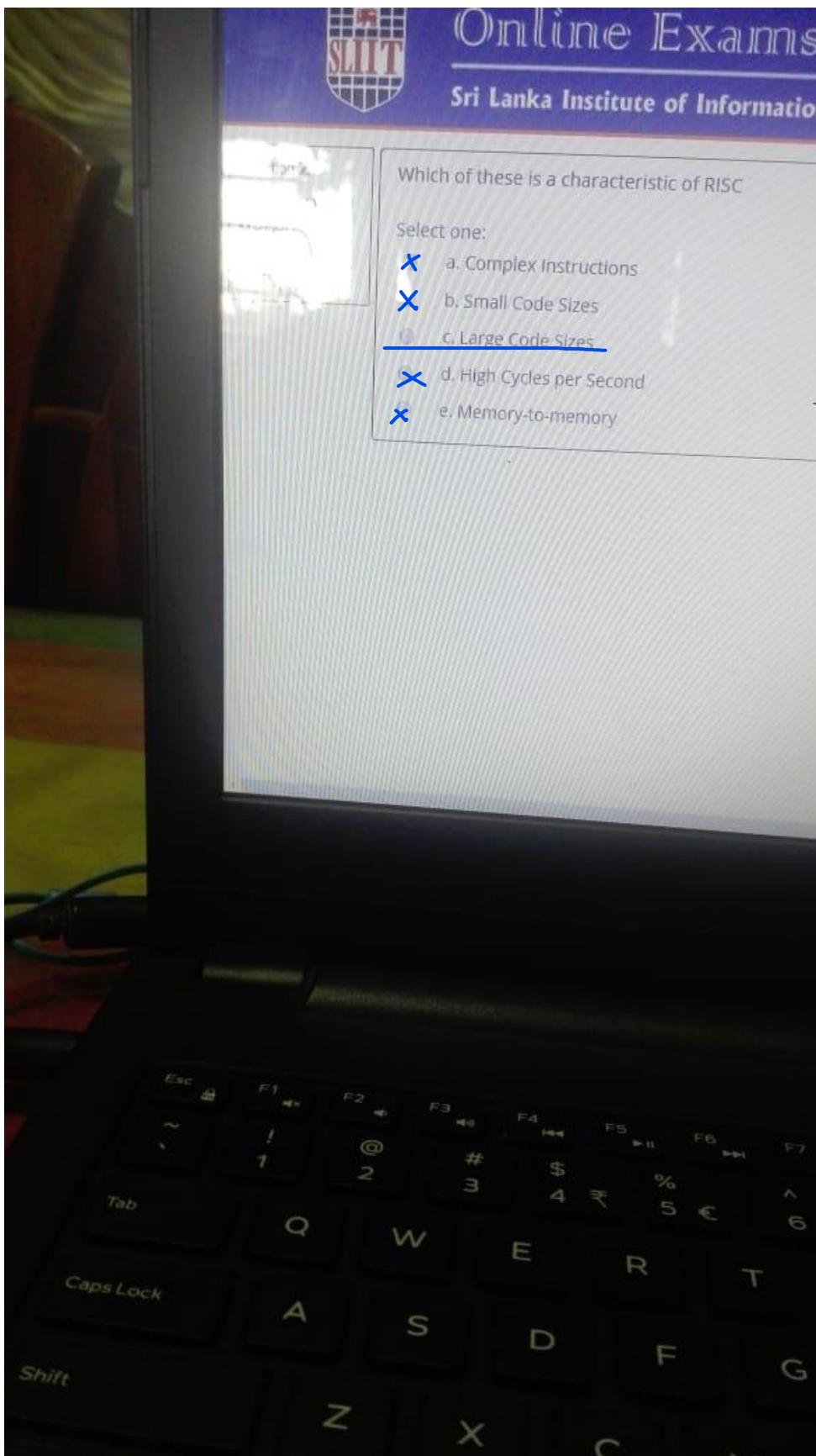
Online Exams

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Which of these is a characteristic of RISC

Select one:

- a. Complex Instructions
- b. Small Code Sizes
- c. Large Code Sizes
- d. High Cycles per Second
- e. Memory-to-memory



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Online Exams

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g question

In a ..... topology there are cables connecting each device to all the other devices in a network.

Select one:

- Mesh
- Star
- Bus
- Ring
- Tree

Next page



## Online Exams

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Question 8

Not yet answered

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1.25

Flag question

Q 1 m  
If  $K = \text{Gates} + F/F$ ; What is K

O 1 m  
K = Gates + F/F

Select one:

- a. Sequential Circuit
- b. Flip - Flops
- c. Minterms
- d. Combinational Circuit
- e. None of the above



## Online Exams

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Question 16

Not yet answered

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Flag question

Which of the following statements is correct?

Q 1 m

Select one:

- a. A failure in Network layer affects transport layer
- b. A failure in Network layer affects Data Link layer
- c. A failure in Network layer affects entire communication
- d. A failure in Network layer stops the device from working entirely
- e. A failure in Network layer crashes the application

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Online Exams

Sri Lanka Institute of Information Technology

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If there are 5 inputs to a decoder the number of outputs will be,

Select one:

- a. Infinite
- b. 32
- c. 16
- d. 8
- e. 4



## Online Exams

Sri Lanka Institute of Information Technology

17  
answered  
out of  
question

What is a main difference between a Switch and a Bridge?

Select one:

- There is no difference.
- A bridge is used to connect LANs whereas a switch is used to create a LAN
- Bridge is used to segment a LAN while Switch is used to interconnect different LANs.
- Bridge is a dumb device while switch is an intelligent device.
- Switch is large and a bridge is small.

[Next page](#)

Online Exams

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18

Answered  
out of  
question

Which of the following is not an area of memory pointed by 8086 register

Select one:

- a. Code segment
- b. Data segment
- c. Instruct segment
- d. Stack segment
- e. Extra segment

Next page

What does a Protocol define?

Select one:

- Protocol defines what data is communicated.
- Protocol defines how data is communicated.
- Protocol defines when data is communicated.
- Protocol defines why data is communicated.
- None of the mentioned is true.

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20  
answered  
out of  
question

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- e. A failure in Network layer crashes the application

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## Memory Refresh

The process of periodically read data from an area of computer memory and immediately writing the read information to the same area is called

Online Exams

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The process of periodically read data from an area of computer memory and immediately writing the read information to the same area is called

Memory Refresh

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 Online Exams

Sri Lanka Institute of Information Technology

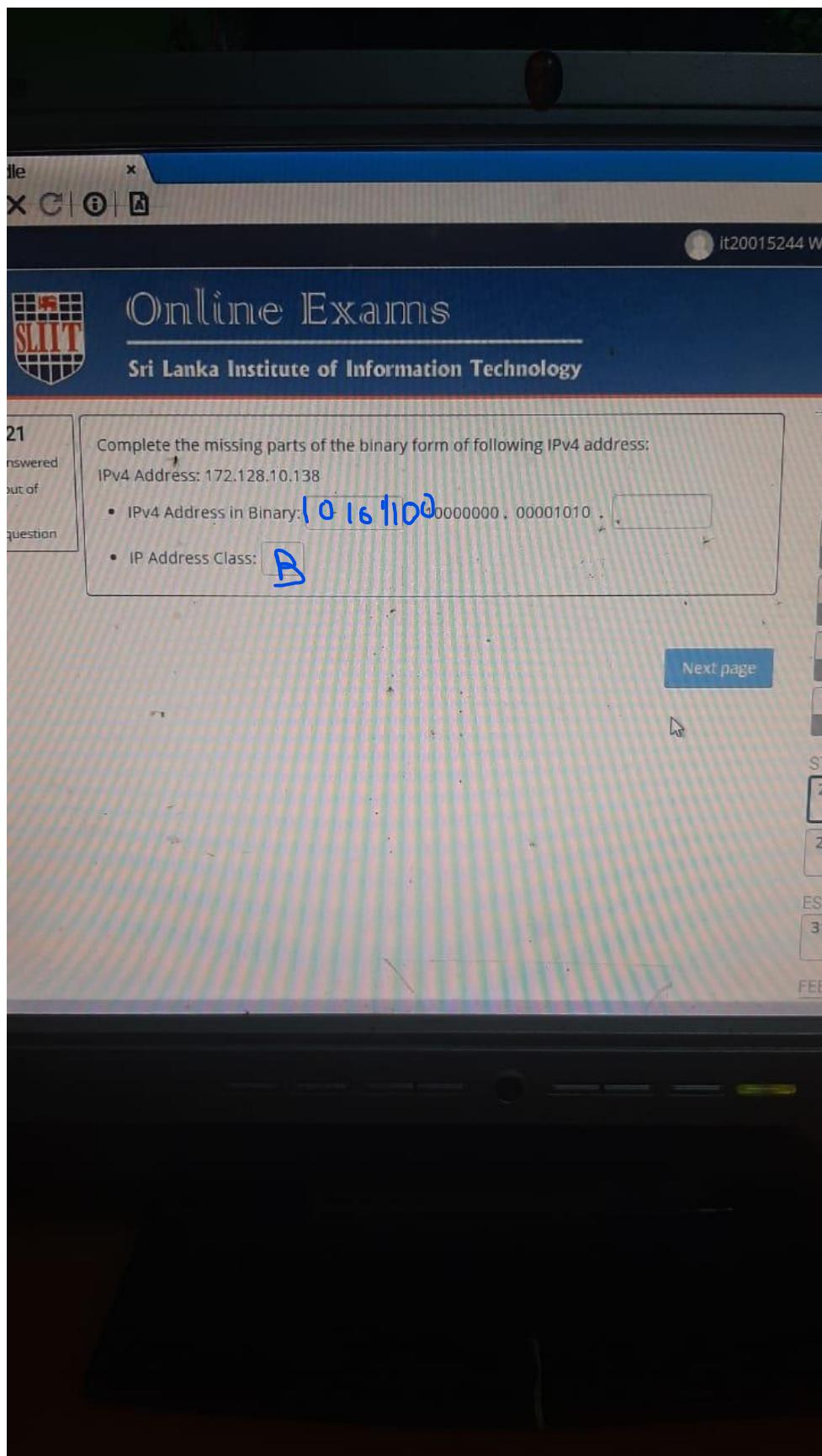
21  
answered  
out of  
question

Complete the missing parts of the binary form of following IPv4 address:  
IPv4 Address: 172.128.10.138

- IPv4 Address in Binary:
- IP Address Class:

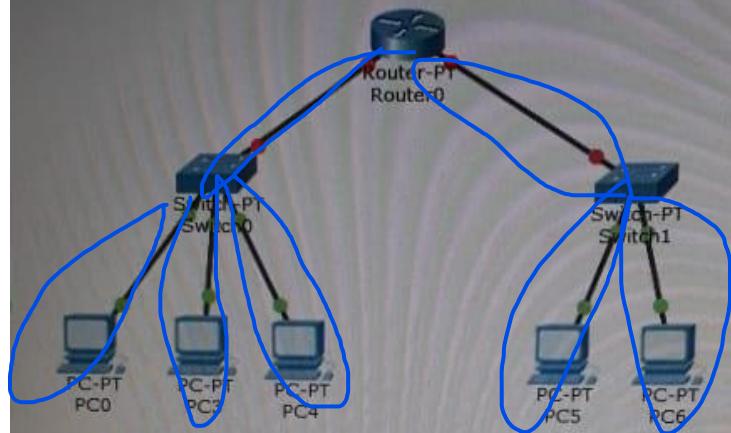
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ST  
2  
2  
ES  
31  
FEE



## Sri Lanka Institute of Information Technology

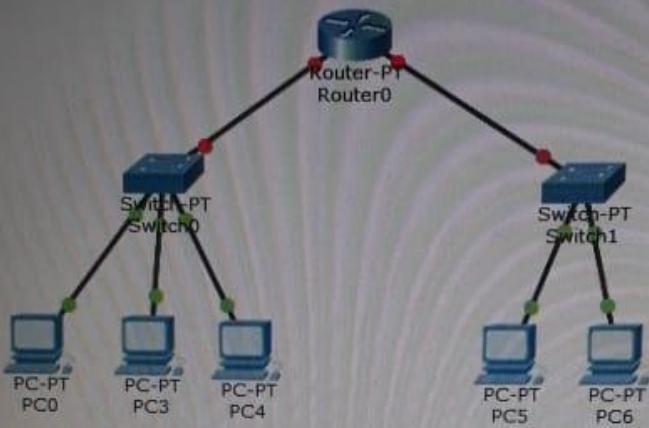
Which of the following statements describe the network shown in the graphic? (Select two)



Select one or more:

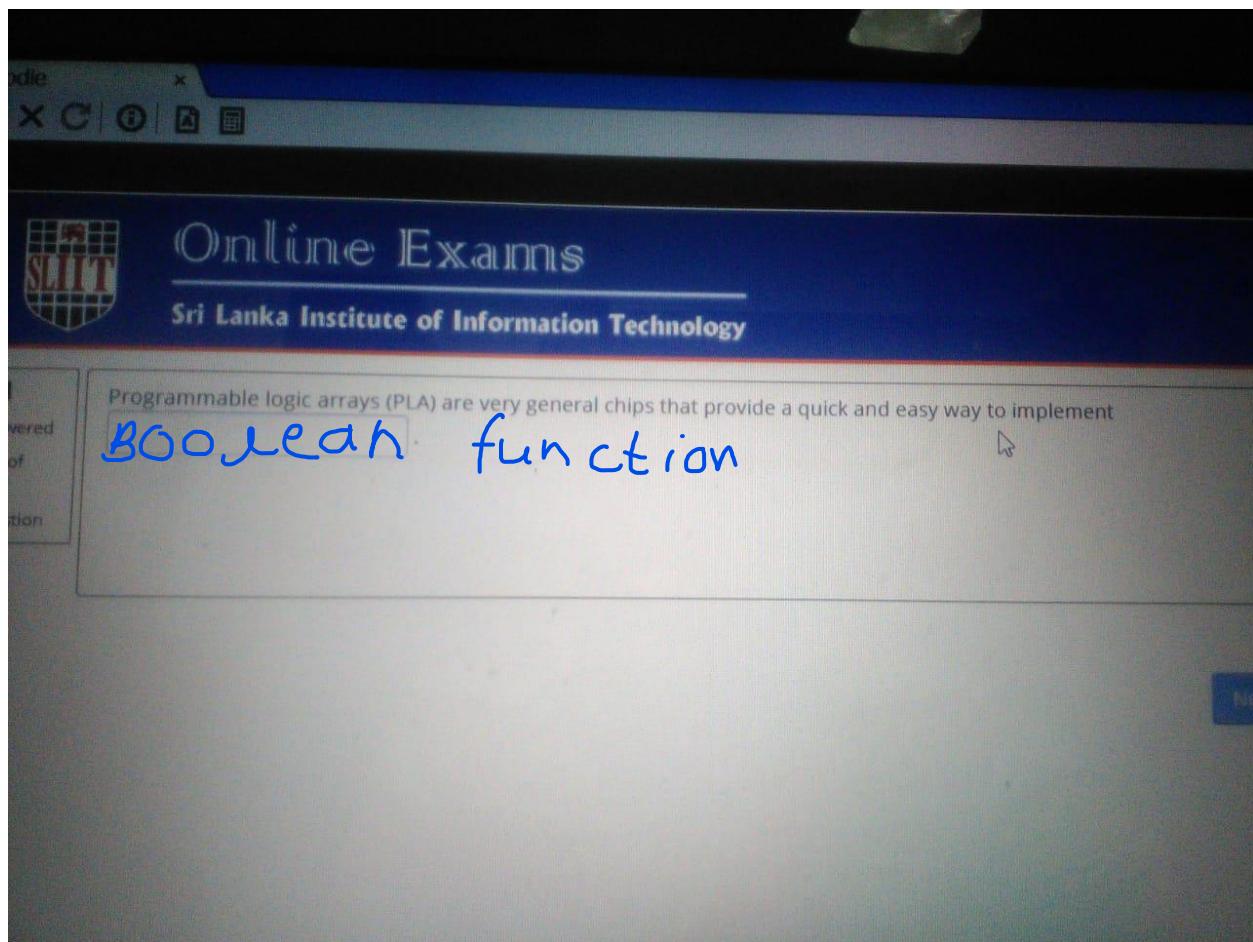
- There are total number of two broadcast domains in the network.
- There are total number of six broadcast domains in the network.
- There are total number of four broadcast domains in the network.
- There are total number of five collision domains in the network.
- There are total number of seven collision domains in the network.
- There are total number of four collision domains in the network.

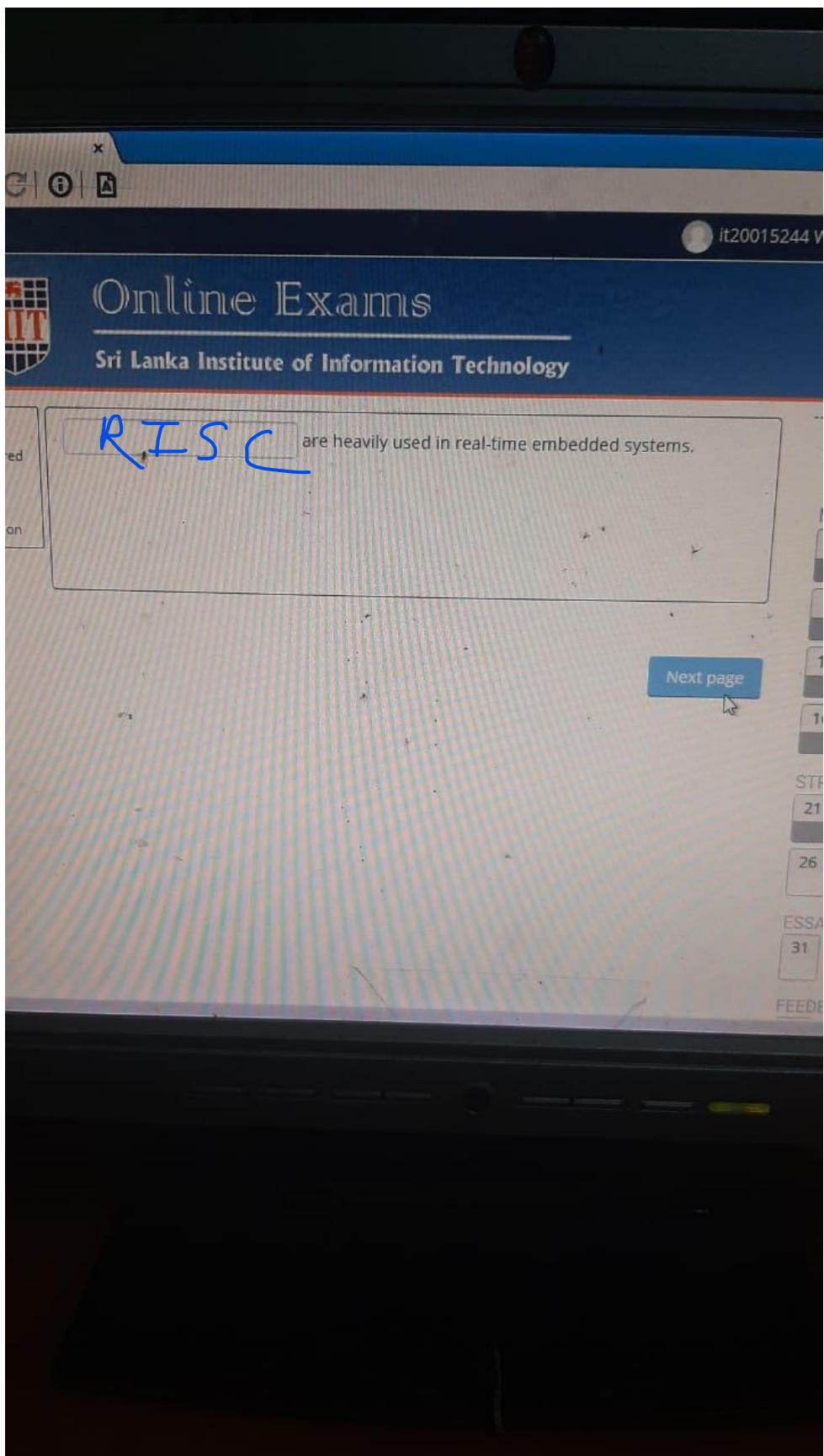
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Select one or more:

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- There are total number of seven collision domains in the network.
- There are total number of four collision domains in the network.





# Online Exams

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Which of the following is NOT a correct statement regarding Firewalls?

Select one:

- a. A Firewall resides between two or more networks ✓
- b. A firewall controls traffic and helps prevent unauthorized access ✓
- c.
- d. Packet Filtering is a method used in Firewalls
- e. URL Filtering is a method used in Firewalls ✓
- f. Firewall can provide 100% security to a network



23

Answered

out of

question

A software generated interrupt is called

A trap

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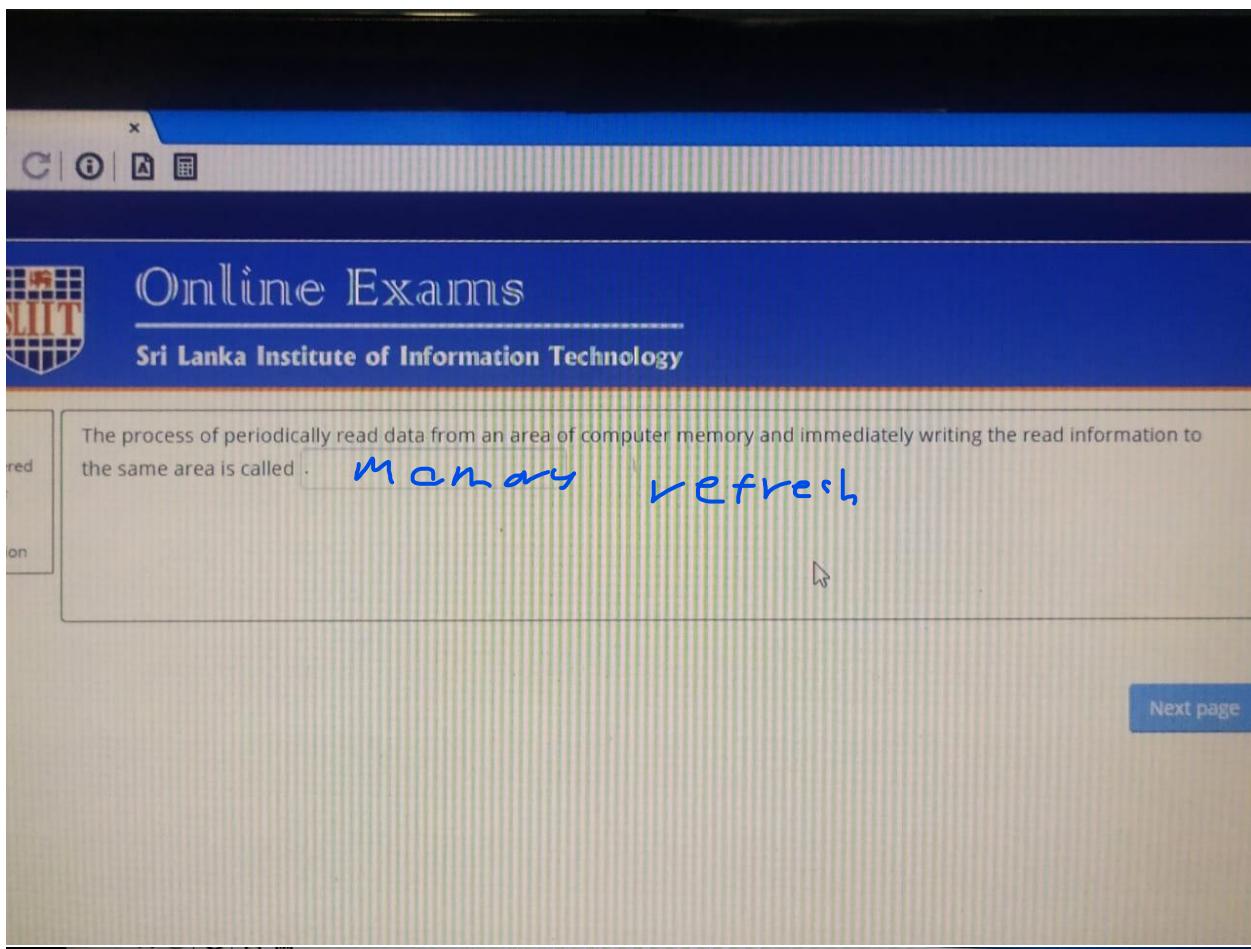
## Online Exams

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clock

emit pulse trains of precise repetition interval and width.

Circuits



Question 25  
Not yet answered  
Marked out of 1.00  
Flag question

are heavily used in real-time embedded systems.

**Next page**

Online Exams

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23 answered out of 23 questions

How many unique networks can be created in Class B?

Answer:  $2^{24} \times 2^{24} \left( 2^{16} - 2 \right)$

Next page

The image shows a screenshot of a computer screen displaying an online examination interface. The title bar includes the text "Online Exams" and "Sri Lanka Institute of Information Technology". On the left side, there is a sidebar with the text "23 answered out of 23 questions". The main content area contains a question: "How many unique networks can be created in Class B?". Below the question, the user has handwritten the answer as  $2^{24} \times 2^{24} \left( 2^{16} - 2 \right)$ . At the bottom right of the main content area, there is a blue button labeled "Next page". The overall background is dark, and the interface has a clean, modern design.

Question 22  
Not yet answered  
Marked out of  
1.00  
Flag question

The process of periodically read data from an area of computer memory and immediately writing the read information to the same area is called

Next page



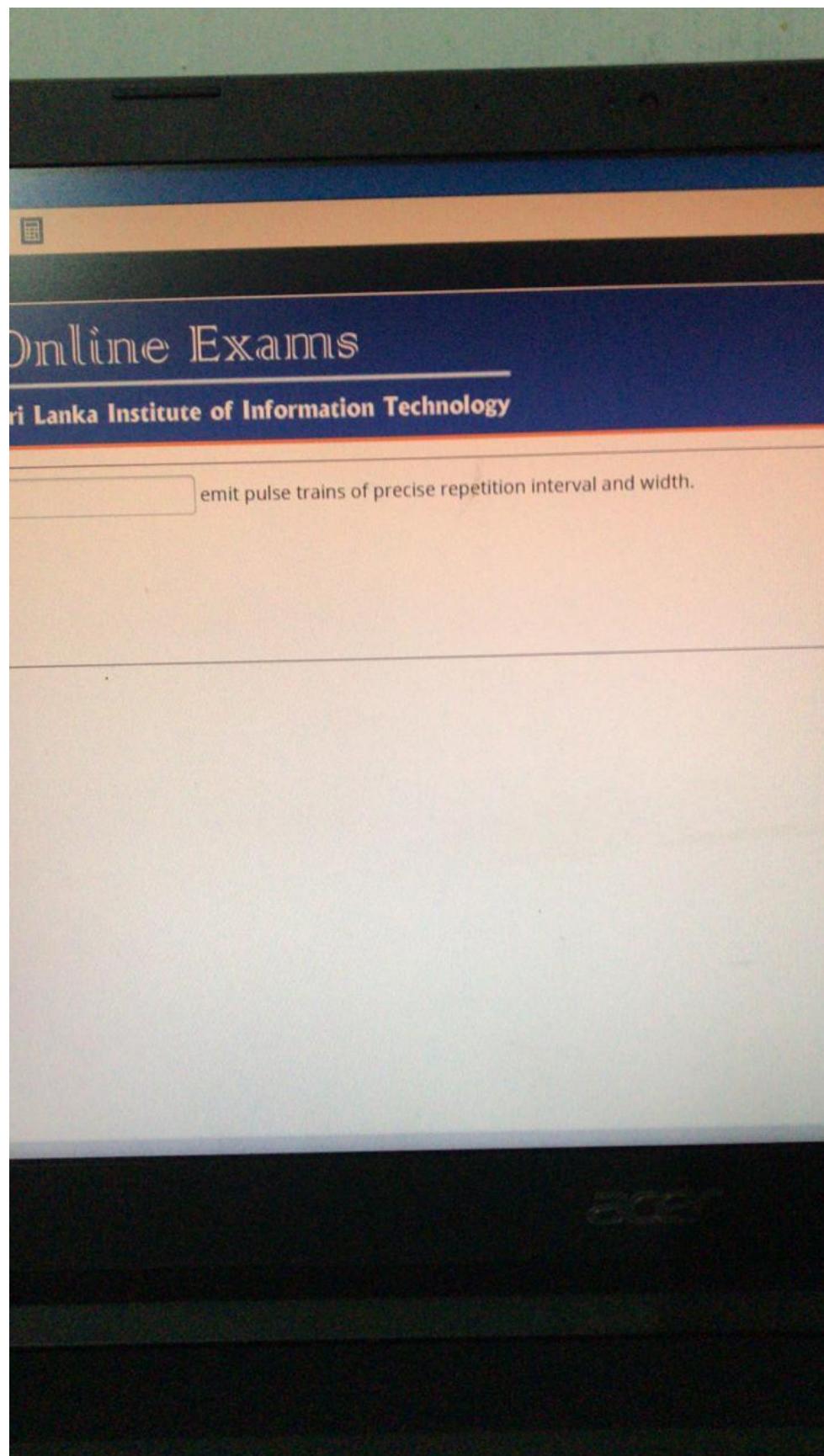
## Online Exams

Sri Lanka Institute of Information Technology

What are the correct statements about "MAC address table"? (select two)

Select one or more:

- MAC address table is used by switches
- MAC address table is used by routers
- MAC address table is a collection of MAC addresses with the respective co
- MAC address table is created for each computer
- None of the given answers are true



Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 27

Not yet answered

Marked out of 1.00

Flag question

Rtcs

are heavily used in real-time embedded systems.

Next page

Quiz navigation

MCQ

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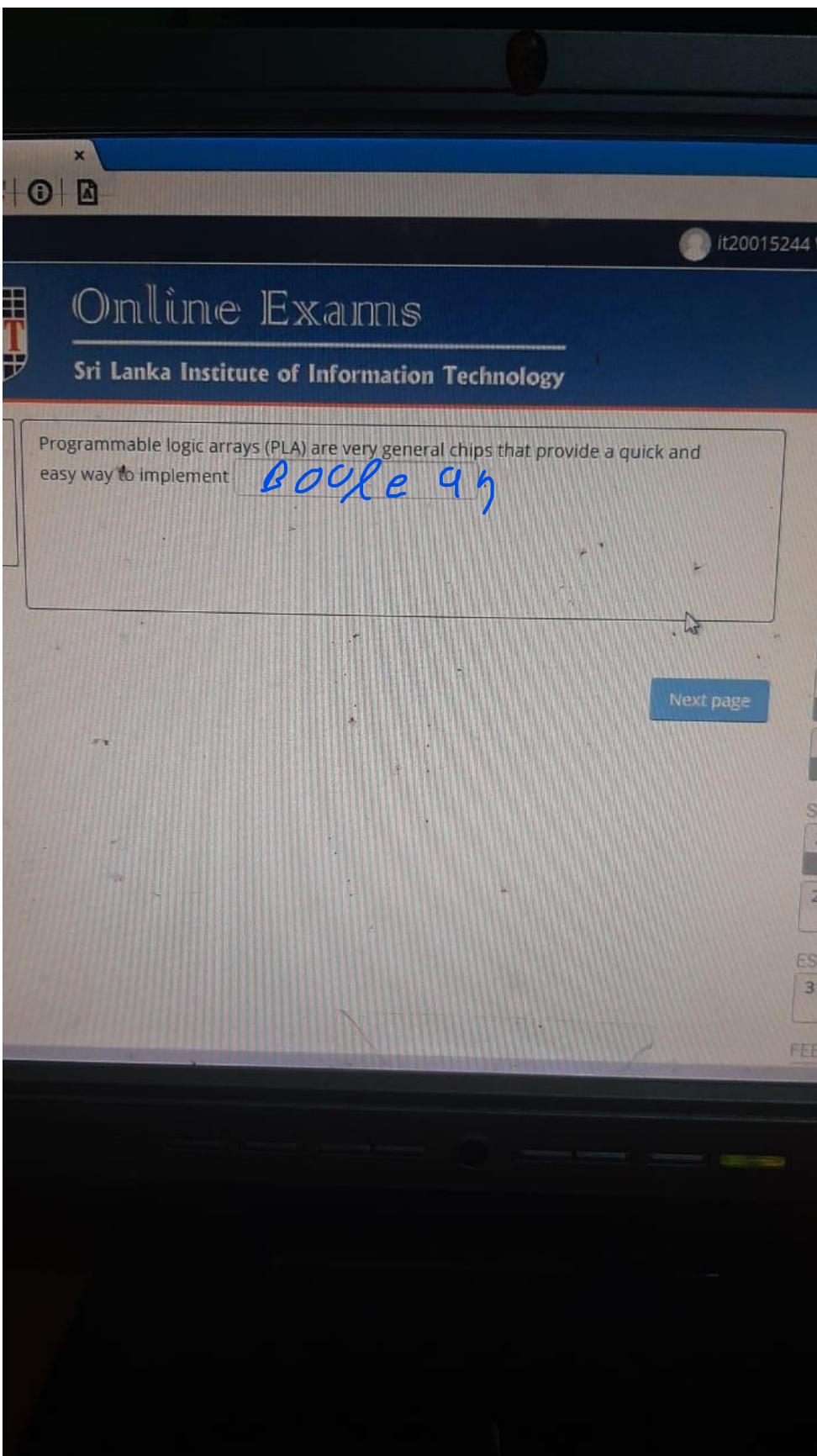
STRUCTURED

21	22	23	24	25	26
27	28	29	30		

EASY

21					
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IT19208022 Wijerathne D.M.R. IT19208022





Online Exams

Sri Lanka Institute of Information Technology

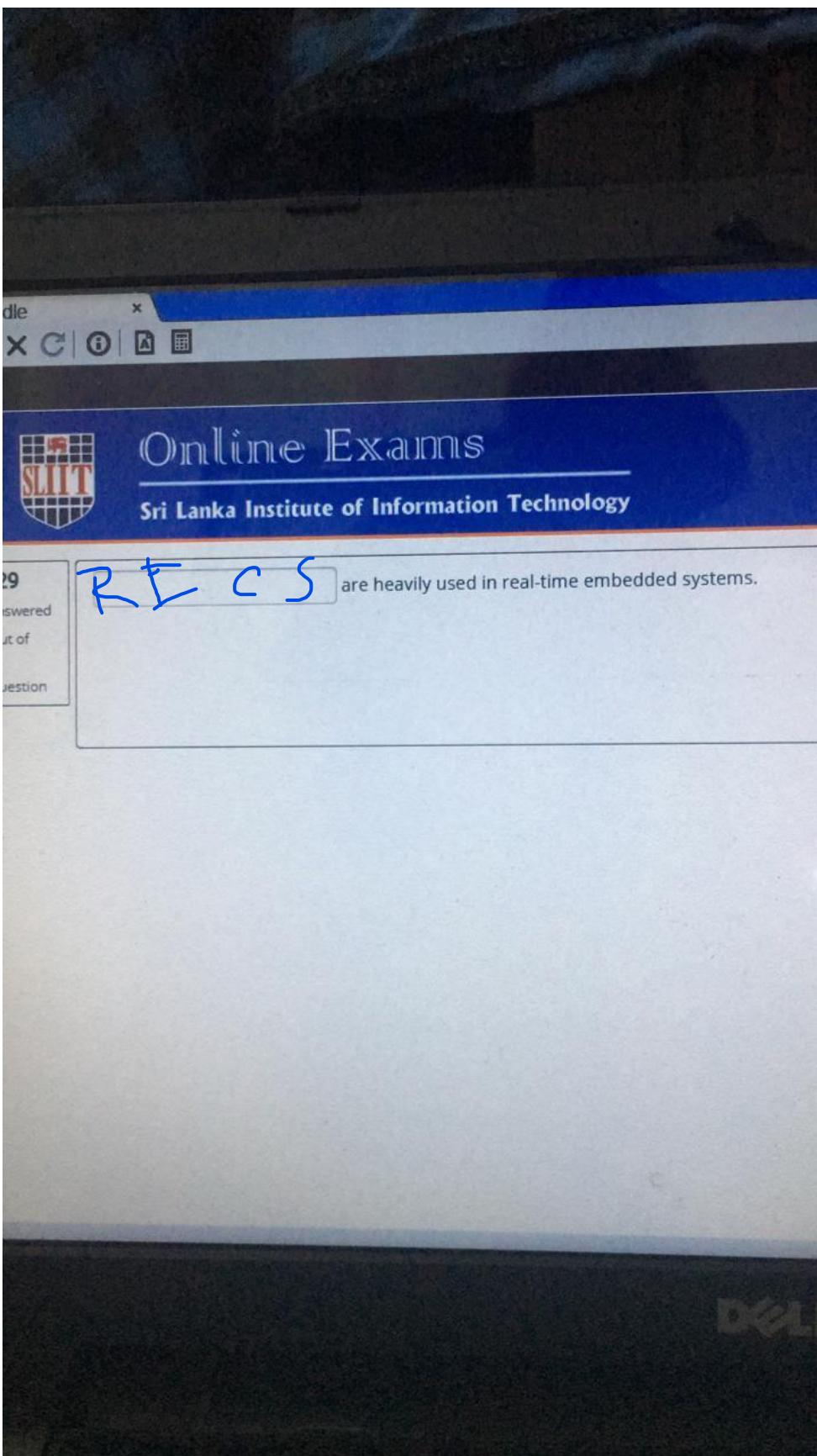
ed  
ion

Interrupt transfers control of a program to a

Interrupt

routine.

service



# Online Exams

Sri Lanka Institute of Information Technology

Select the incorrect statement regarding the Dynamic RAM

Select one:

- a. Bits stored as charges in capacitors
- b. No refreshing needed when powered
- c. Simpler construction, smaller per bit
- d. Slower than static memory
- e. Less expensive



## Online Exams

Sri Lanka Institute of Information Technology

Select the incorrect statement regarding the Dynamic RAM

Select one:

- a. Bits stored as charges in capacitors
- b. No refreshing needed when powered
- c. Simpler construction, smaller per bit
- d. Slower than static memory
- e. Less expensive

31  
answered  
out of  
question

Nimal and his team analyzed a real-world problem to design a combinational circuit. They derived following truth table to record input (A, B, C, D) and output (f) behavior. They entered "X" in the output column where they *don't care* whether output is "0" or "1".

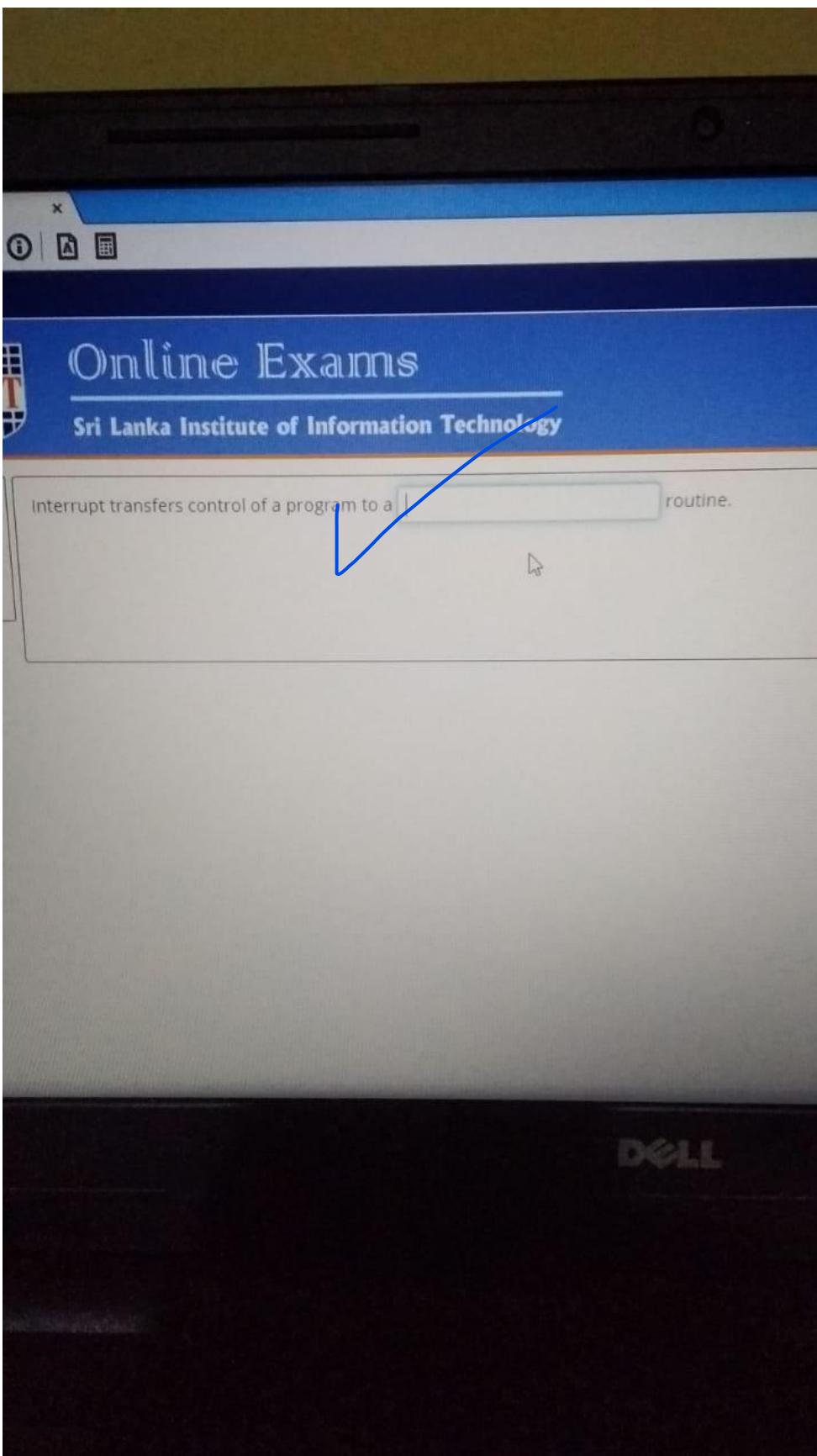
A	B	C	D	f
0	0	0	0	0
0	0	0	1	0
0	0	1	0	1
0	0	1	1	1
0	1	0	0	0
0	1	0	1	X
0	1	1	0	1
0	1	1	1	X

A	B	C	D	f
1	0	0	0	0
1	0	0	1	0
1	0	1	0	0
1	0	1	1	X
1	1	0	0	0
1	1	0	1	0
1	1	1	0	0
1	1	1	1	1

He needs your support to simplify output behavior function using a Karnaugh map (K-Map). Please write down the simplified Boolean function by using English letters A, B, C, D as variables. (write  $\bar{A}\bar{B}\bar{C}$  as  $A'BC'$ , don't keep spaces between letters).

Answer:

[Next page](#)





## Online Exams

Sri Lanka Institute of Information Technology

23

Answered  
out of  
question

The process of periodically reading data from an area of computer memory and immediately writing the new information to the same area is called  memory management.

Memory Refresh



## Online Exams

Sri Lanka Institute of Information Technology

ed

on

Interrupt transfers control of a program to a  routine.

routine.



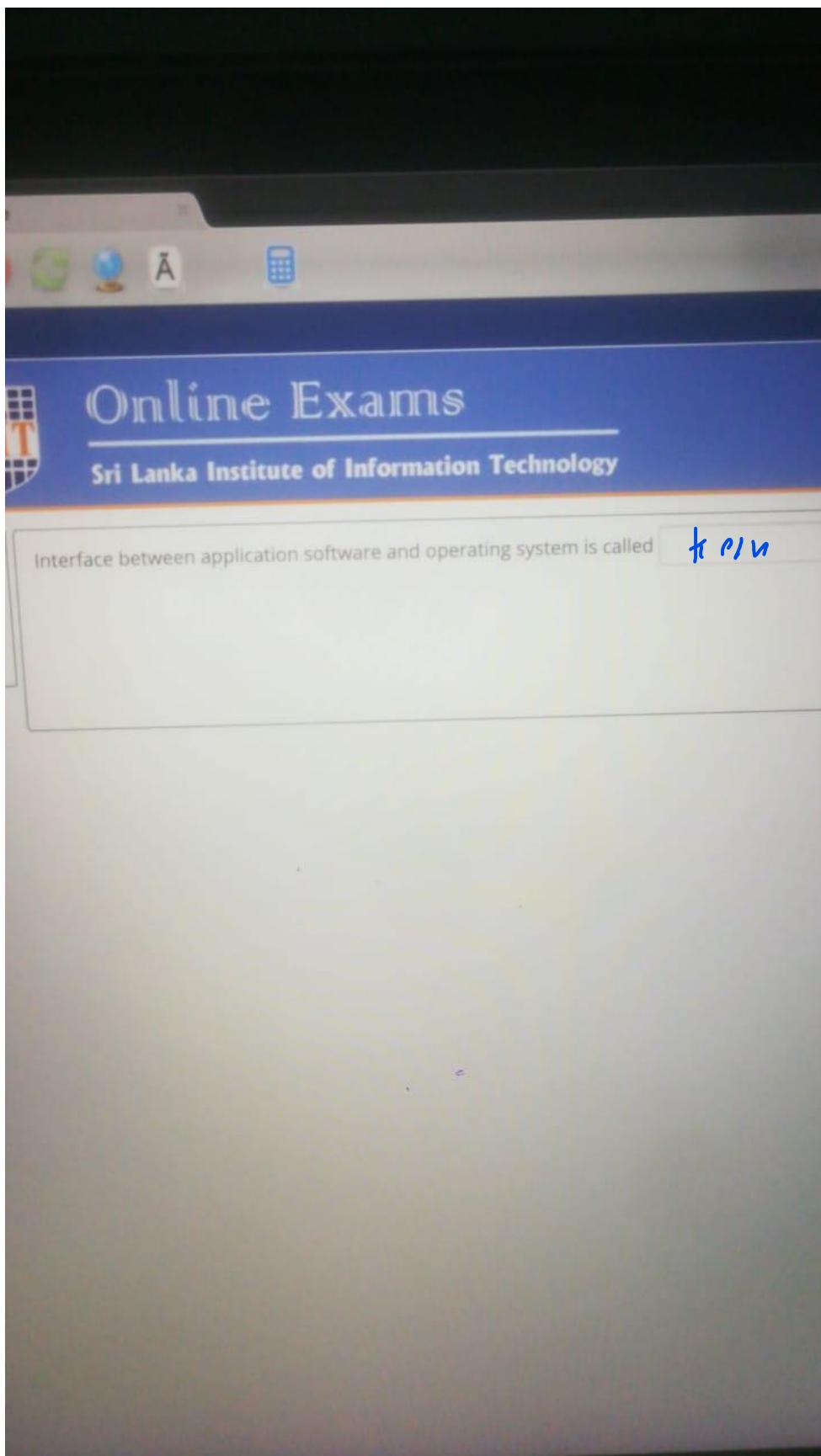
## Online Exams

Sri Lanka Institute of Information Technology

Which of the following statement is true?

Select one:

- a. IP Address is a physical Address X
- b. MAC Address is logical address X
- c. IP Address is a logical Address and MAC Address is a physical Address ✓
- d. IP Address is a physical Address and MAC Address is a logical Address ✓
- e. Both IP and MAC addresses are virtual addresses



Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 30

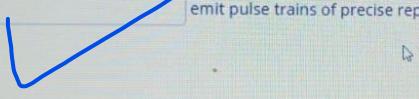
Not yet answered

Marked out of 1.00

Flag question

emit pulse trains of precise repetition interval and width.

Next page



Online Exams

Sri Lanka Institute of Information Technology

Question 26

Not yet answered

Marked out of 1.00

Flag question

Address

is the only uni-directional bus in system bus.

Ans

Next page

# Online Exams

Sri Lanka Institute of Information Technology

Interrupt transfers control of a program to a  routine.

Next page



## Online Exams

Sri Lanka Institute of Information Technology

Question 28

Not yet answered

Marked out of  
1.00

Flag question

Interface between application software and operating system is called \_\_\_\_\_.



Next page



## Online Exams

---

### Sri Lanka Institute of Information Technology

#### Question 21

Not yet answered

Marked out of  
5.00

Flag question

For the given IP address find the following  
IP address: - 172.18.10.1

- Network address:
- Subnet mask:  .  .  .
- Broadcast address:  .  .  .
- Last usable IP address:  .  .  .

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ESSAY

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MC

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STUDY

## Online Exams

Sri Lanka Institute of Information Technology

Interrupt transfers control of a program to a  routine.

[Next page](#)

Online Exams

Sri Lanka Institute of Information Technology

Programmable logic arrays (PLA) are very general chips that provide a quick and easy way to implement

*Boc*

Next page

Online Exams

Sri Lanka Institute of Information Technology

Question 28

Not yet answered

Marked out of  
1.00

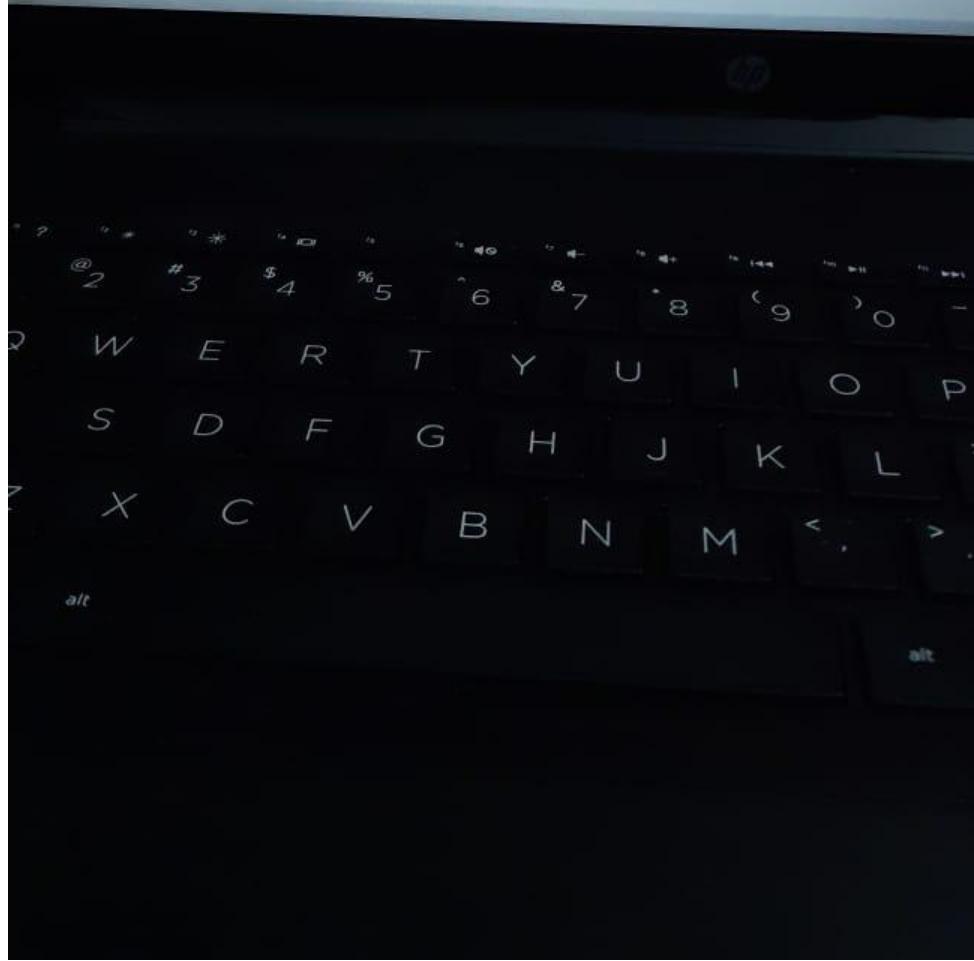
Flag question

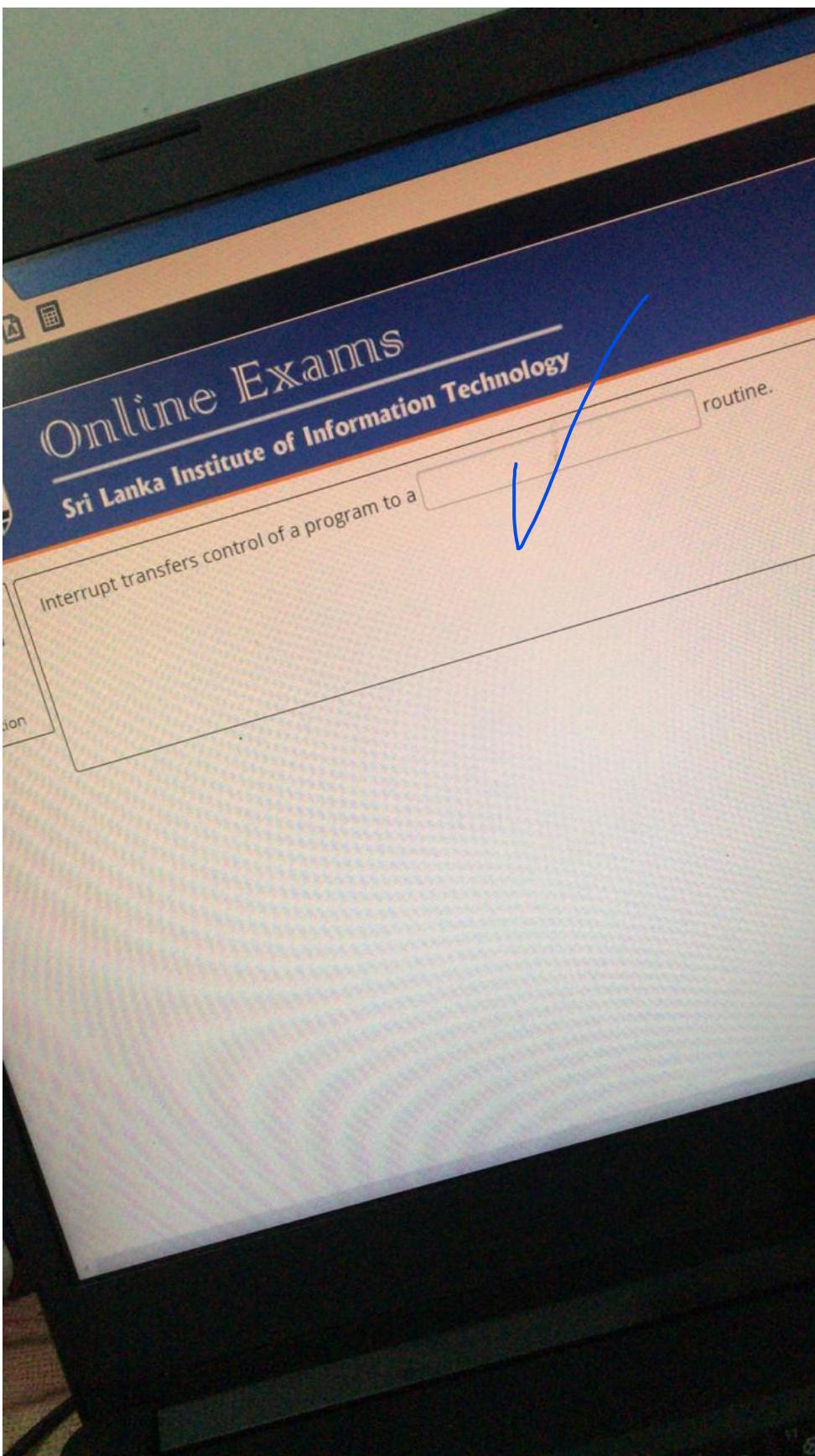
are heavily used in real-time embedded systems.

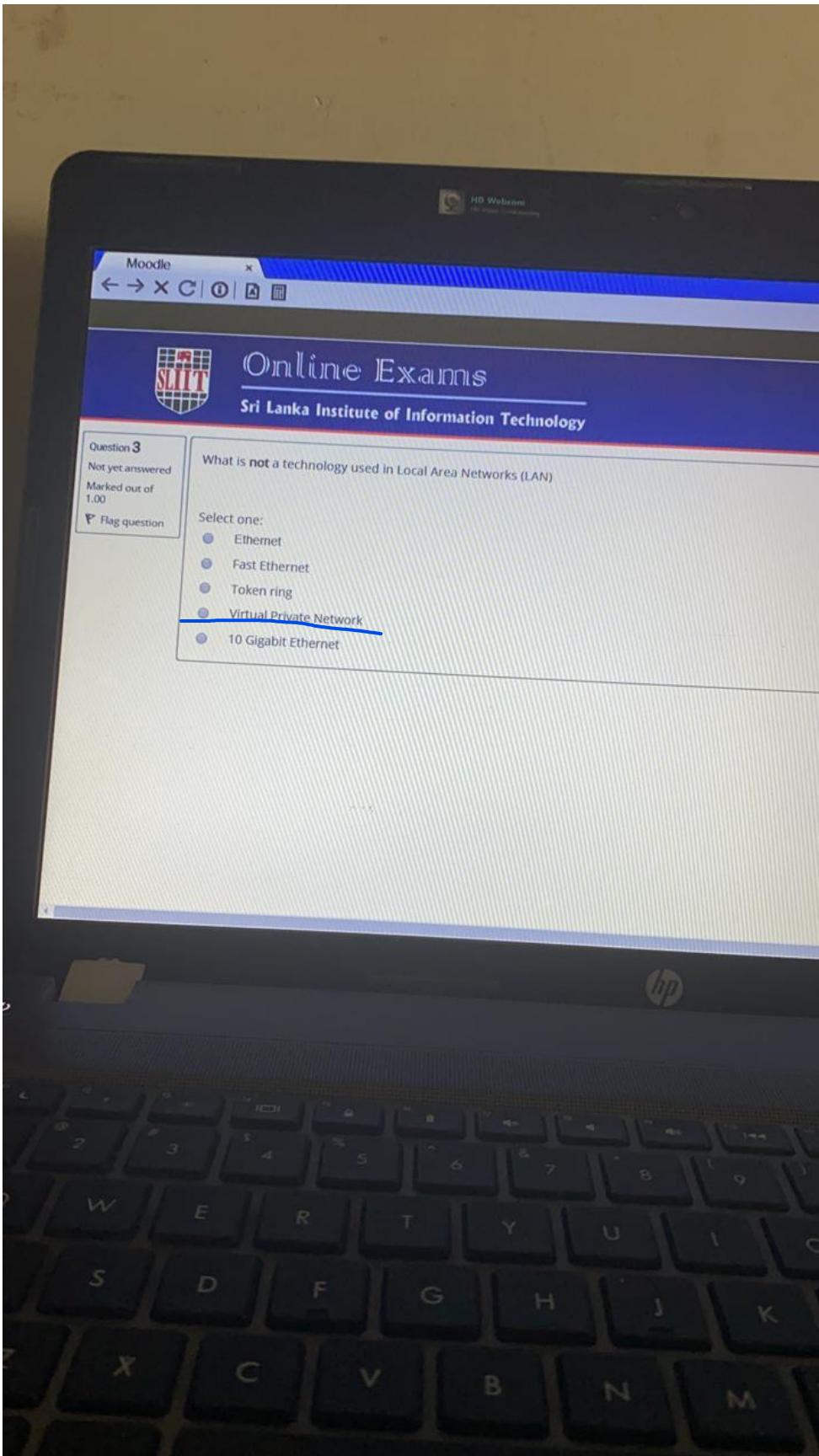
✓

## Sri Lanka Institute of Information Technology

Interface between application software and operating system is called **system software**.







HD Webcam  
HD Video Conferencing

Moodle

← → X C | i | A |

SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Question 4  
Not yet answered  
Marked out of 1.25  
Flag question

What is the BCD value of 481

Select one:

- a. 0001 1110 0001
- b. 0001 1110 0101
- c. 1111 0000 1
- d. 0001 1100 0001
- e. 1101 0000 1



hp



tion 3

et answered

ed out of

g question

What is not an operating system activity under the storage management

Select one:

- a. Free-space management
- b. Storage allocation
- c. Disk scheduling
- d. Backup and reset
- e. None of above



## Online Exams

Sri Lanka Institute of Information Technology

Select the incorrect statement regarding data

Select one:

- a. ASCII is an 7-bit code for 128 different characters.
- b. Data representation refers to the form in which data is stored, processed, and transmitted
- c. Digitization is the process of  converting analog data into digital data.
- d. Numeric, alphabetic, special, alpha-numeric are different types of character data.
- e. One-bit parity is an error correction technique used in data storing and transmission.



Select the incorrect statement regarding the Dynamic RAM

Select one:

- a. Bits stored as charges in capacitors
- b. No refreshing needed when powered
- c. Simpler construction, smaller per bit
- d. Slower than static memory
- e. Less expensive

HD Webcam  
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Which of the following factors is not considered when selecting intermediate devices?

Select one:

- a. Cost ✓
- b. Number of Ports ✓
- c. Device Speed ✓
- d. Manageability of the Device ✓
- e. Weight (portability) of the device

hp

13 14 15 16 17 18 19 110 111

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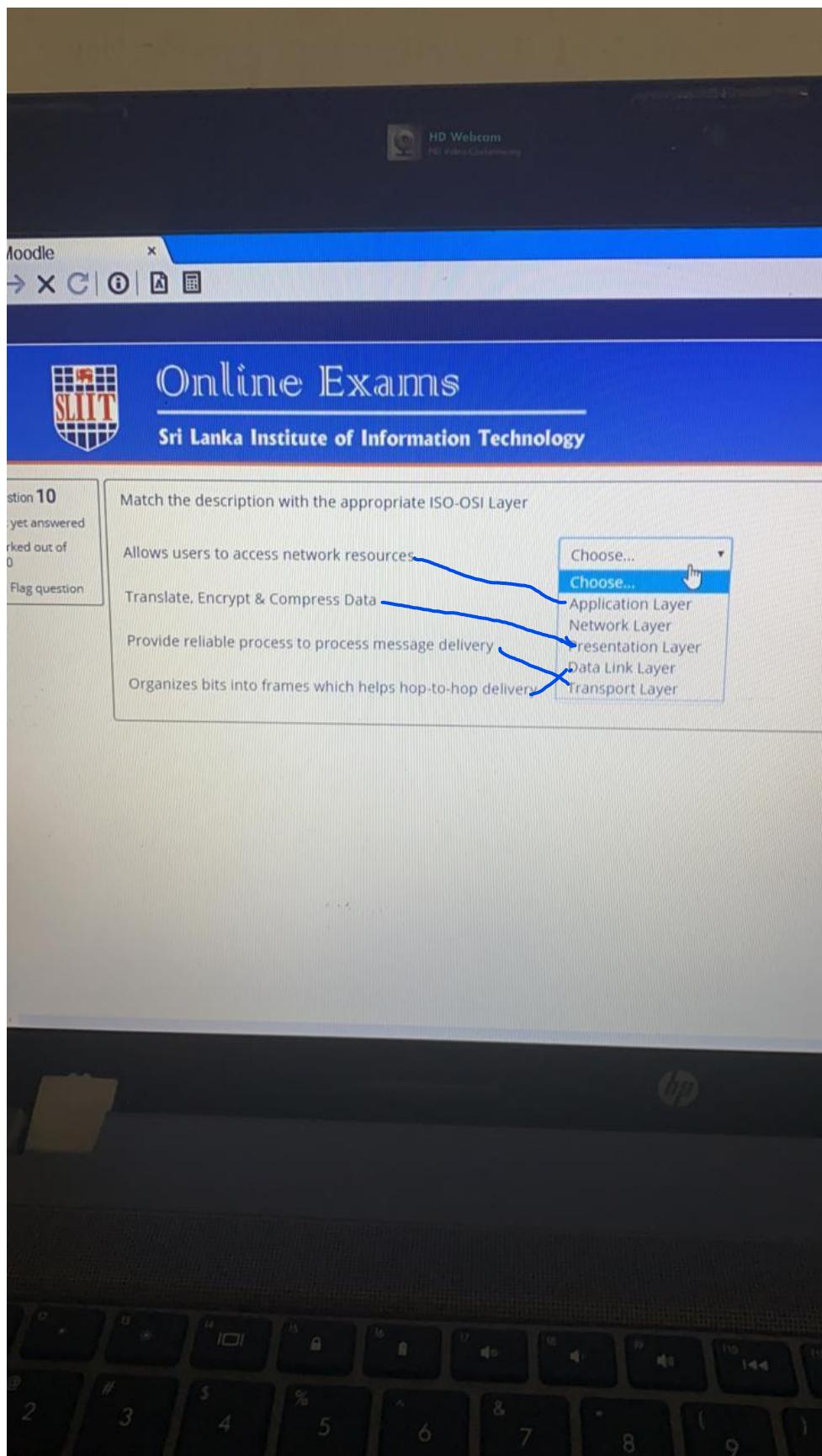
Which of the following factors is not considered when selecting intermediate devices?

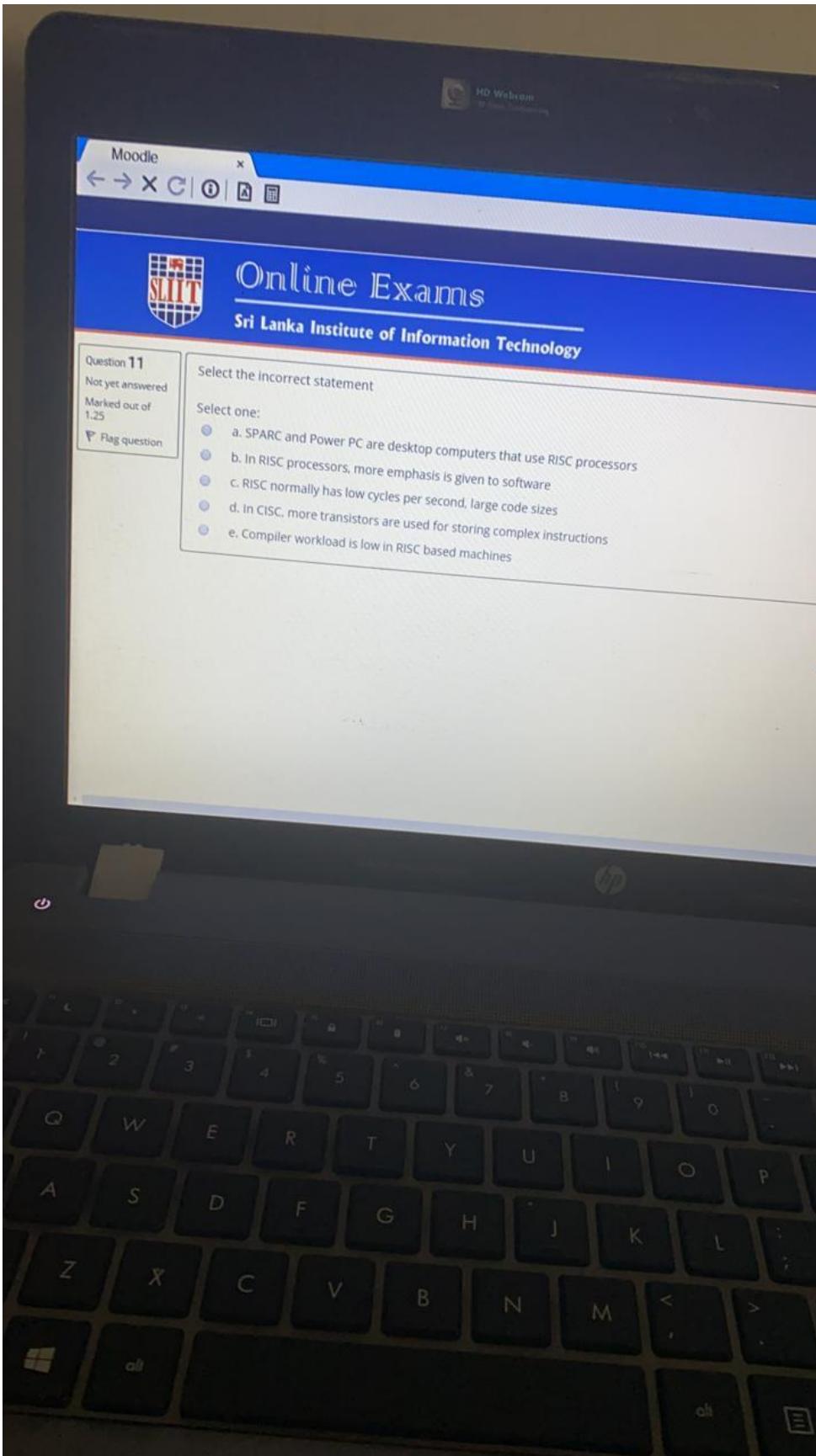
Select one:

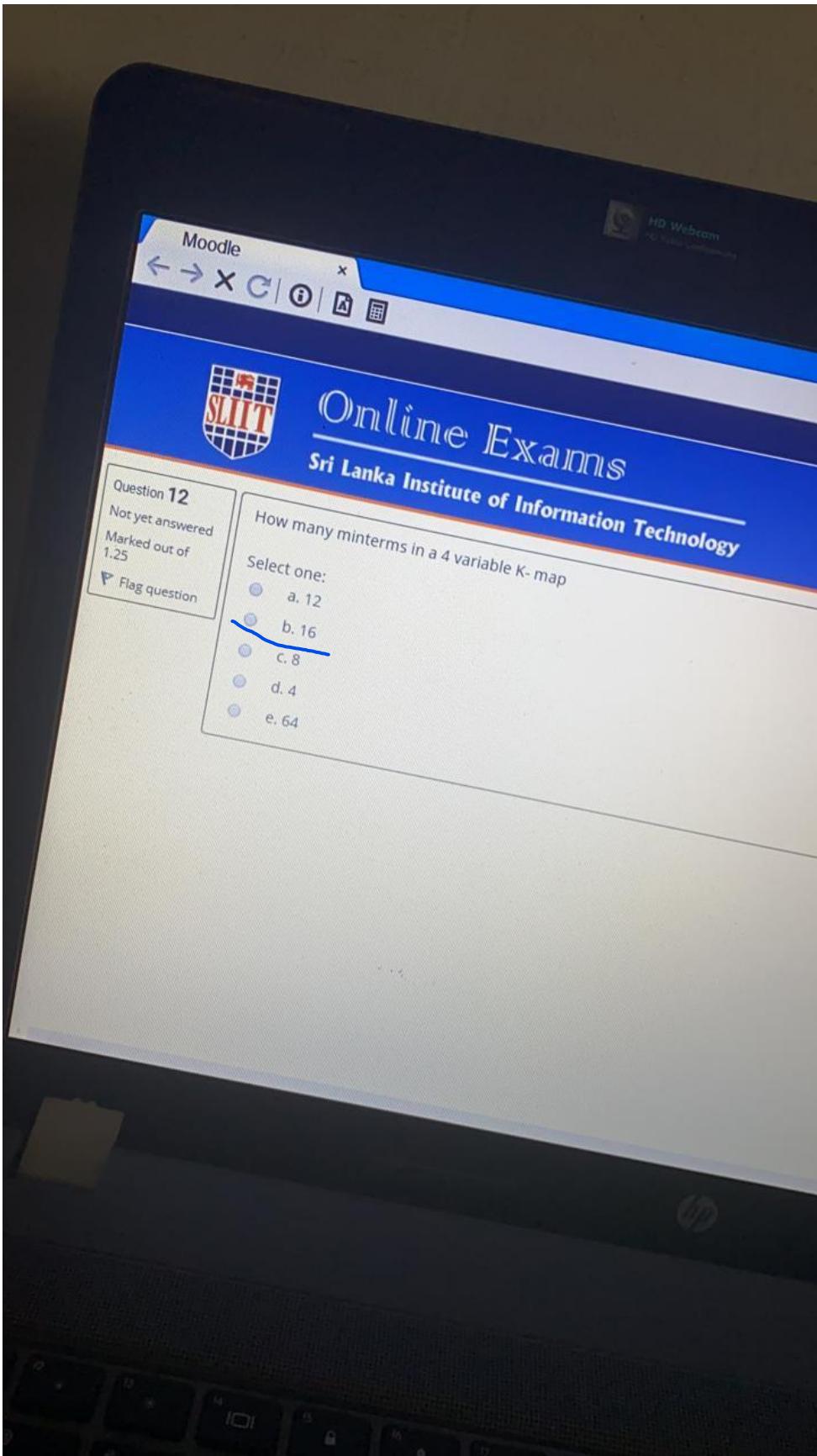
- a. Cost
- b. Number of Ports
- c. Device Speed
- d. Manageability of the Device
- e. Weight (portability) of the device

hp

13 14 15 16 17 18 19 110 111







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HD Webcams

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on 15  
answered  
out of  
question

Calculate the number of total number of storage locations available for 8 bits of information

Select one:

- a. 32
- b. 255
- c. 127
- d. 256
- e. 16

2<sup>8</sup>

Online Exam

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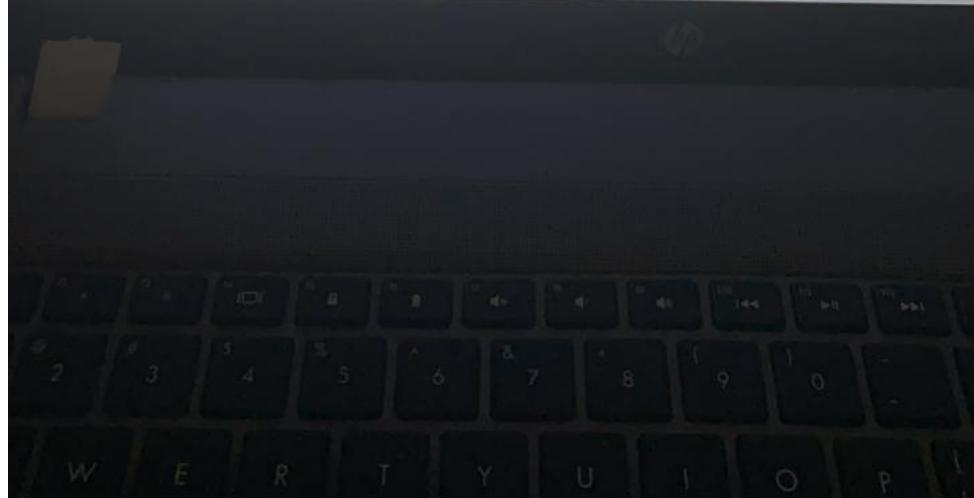
Question 16  
Not answered  
1 out of 1  
Flag question

Which of the following is including only general purpose registers in 8086 architecture

Select one:

- a. AX, BX, CX, DX
- b. SP, BP, SI, DI
- c. RAM, ROM
- d. FLAGS, Flag register
- e. MAR, MDR

Next



Online Exam

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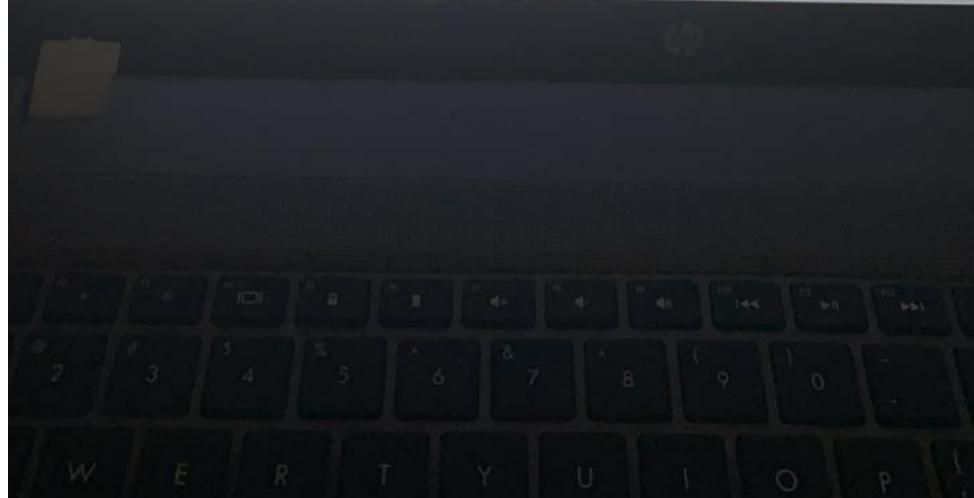
Question 16

Which of the following is including only general purpose registers in 8086 architecture

Select one:

- a. AX, BX, CX, DX
- b. SP, BP, SI, DI
- c. RAM, ROM
- d. FLAGS, Flag register
- e. MAR, MDR

Next



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All your video needs

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Online Exams

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Question 18  
Not yet answered  
Marked out of 25  
Flag question

Mutability of storage devices explains

Select one:

- a. How storage locations are addressed
- b. What happens to the content when power is not available
- c. How storage locations are addresses
- d. Time latency due to seek time and rotational delay
- e. Whether the content is read/write or read only

Online Exams

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What is the correct statement about a Collision Domain?

Select one:

- A collection of two or more computers in which, if more than one sender tries to send data simultaneously, the signals will collide in the transmission media and make all the sent information unusable.
- In a router, all ports are in a single collision domain
- A collection of two or more computers in which, if one sender tries to send data, the signal will collide in the transmission media and make the sent information unusable.
- A collection of two or more computers in which, one computer tries to send data after another computer, the signals will collide in the transmission media and make all the sent information unusable.
- None of the mentioned is true

Next page

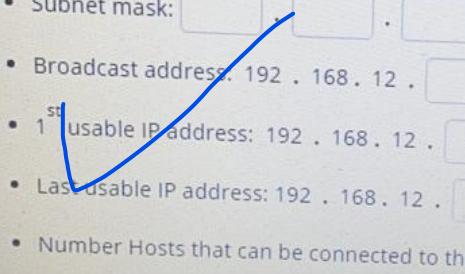
**Online Exams**

Sri Lanka Institute of Information Technology

For the given IP address find the following.

IP address: - 192.168.12.8

- Network address:  .  .  .
- Subnet mask:  .  .  .
- Broadcast address: 192 . 168 . 12 .
- 1<sup>st</sup> usable IP address: 192 . 168 . 12 .
- Last usable IP address: 192 . 168 . 12 .
- Number Hosts that can be connected to this network:



hp

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Online Exams

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Question 22  
0 yet answered  
Marked out of 0  
Flag question

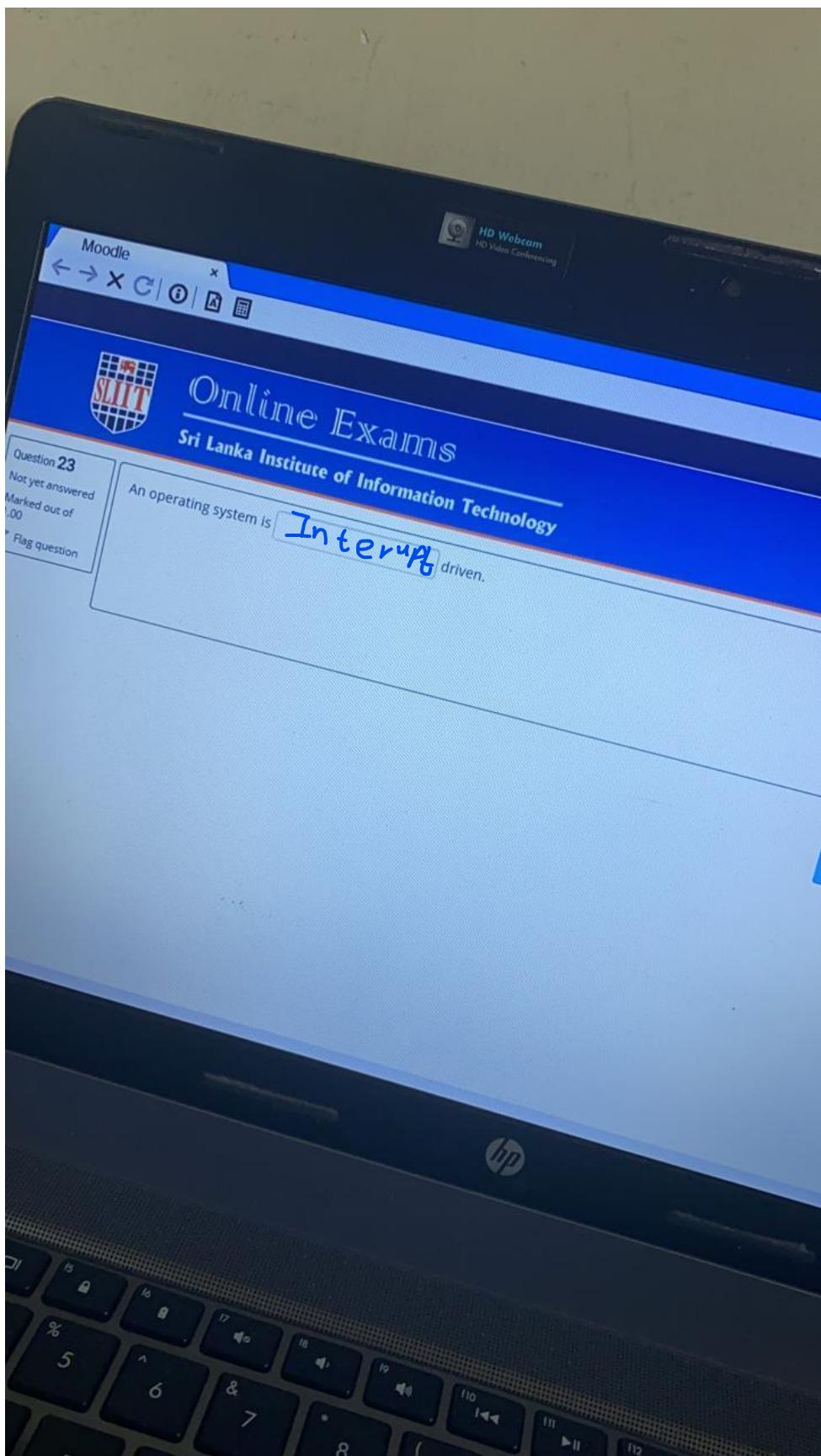
Change the following IP address from binary notation to dotted decimal and find the IPv4 Address Class.

Binary Form = 10101100 00010001 11001001 00001010

- IPv4 Address in Decimal:  .  .  .
- IP Address Class:

Next page

HP



## Online Exams

Sri Lanka Institute of Information Technology

Question 23

Not yet answered

Marked out of

0.00

\* Flag question

An operating system is **Interrupt** driven.

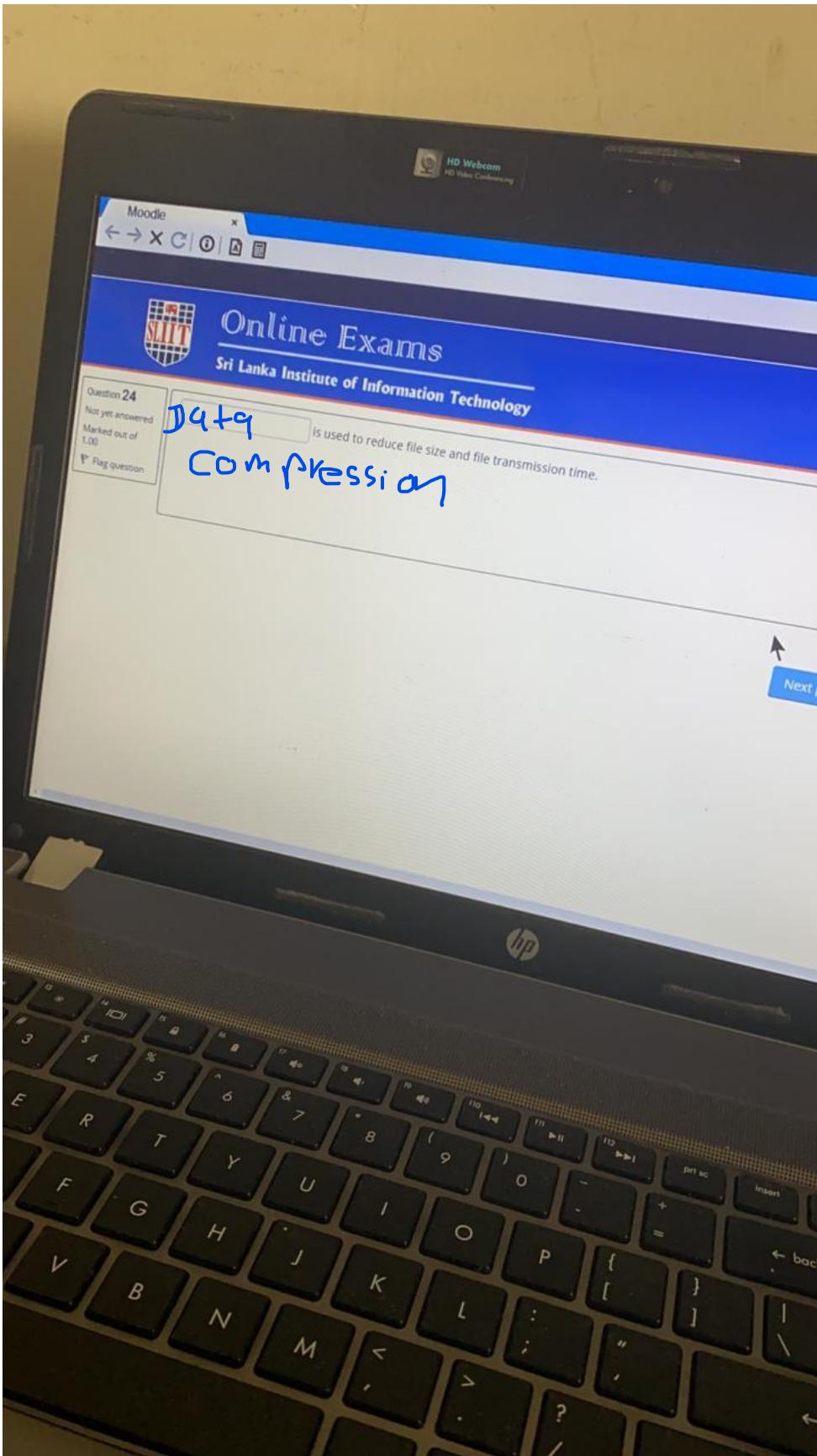


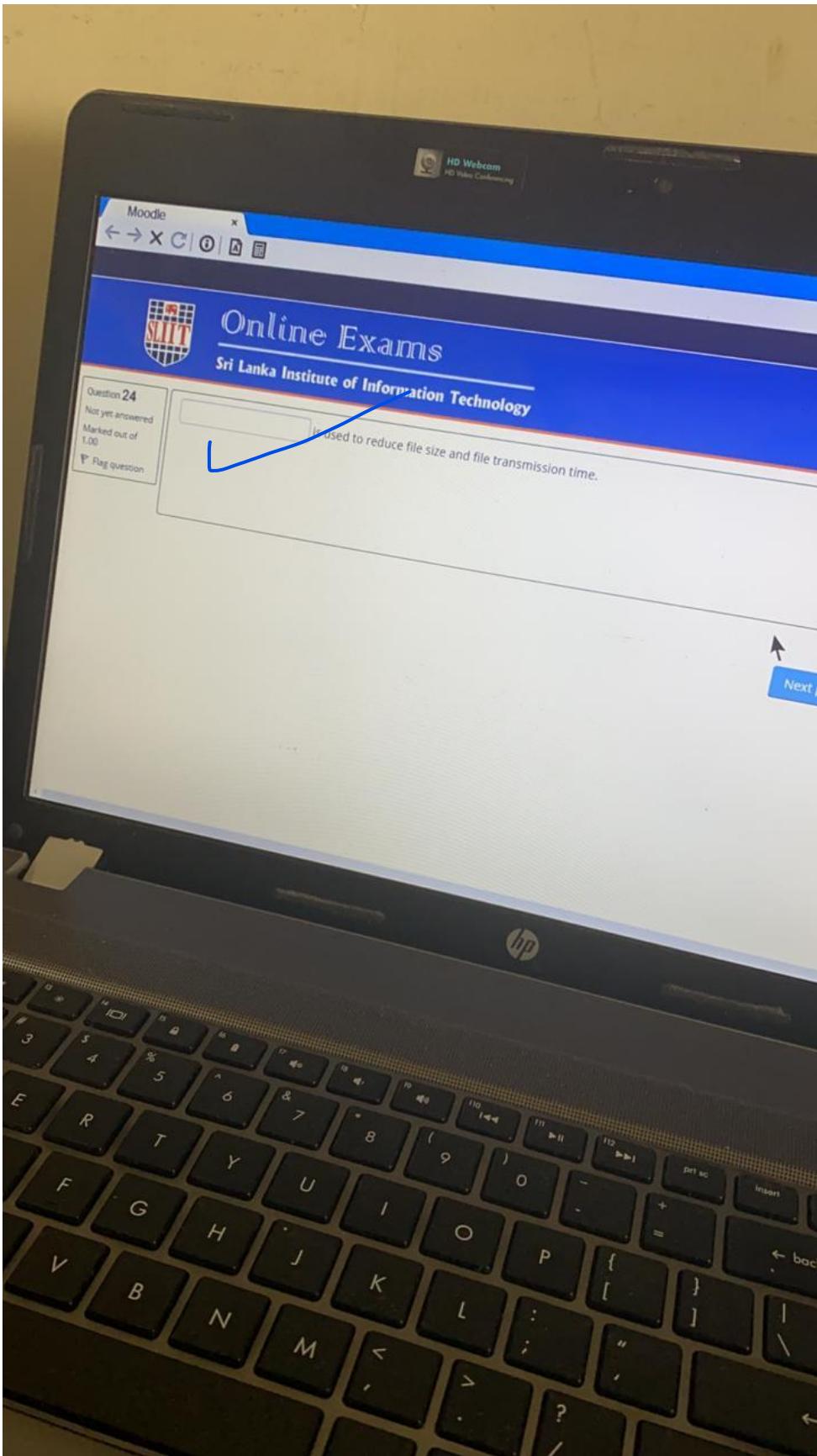


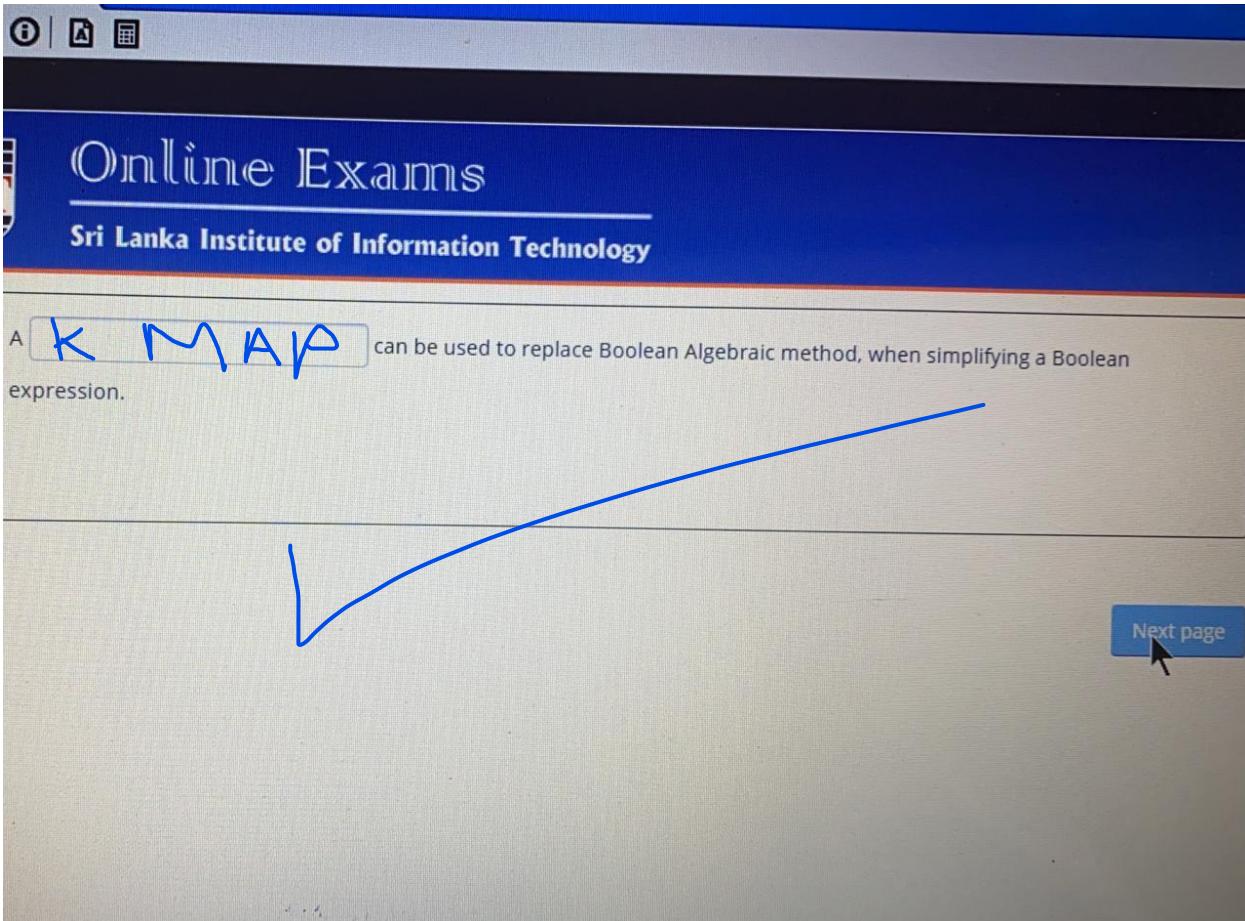
How many registers are found in the EU of the 8086 architecture

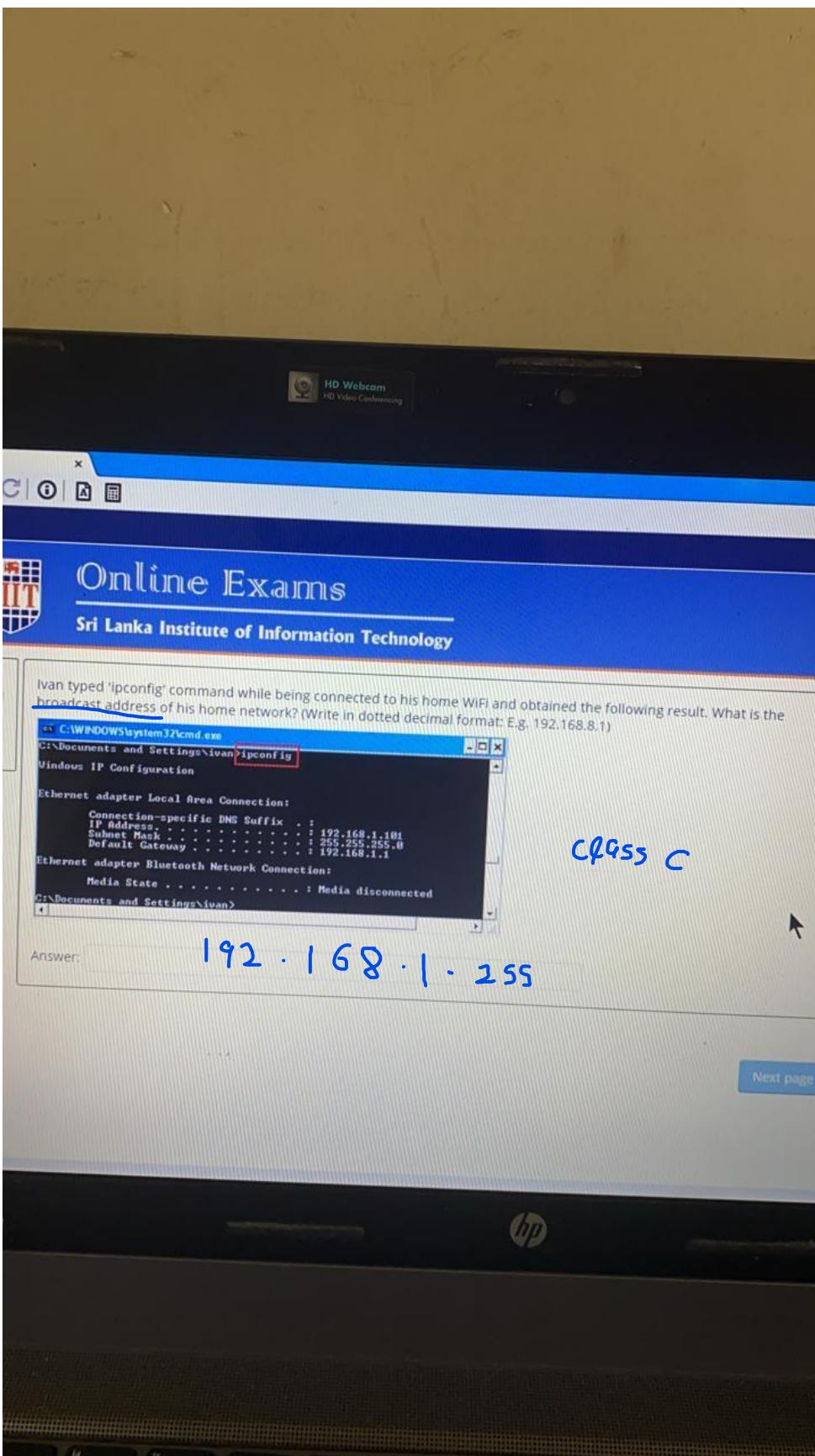
Select one:

- a. 3
- b. 8
- c. 4
- d. 6
- e. 16









Online Exams

Sri Lanka Institute of Information Technology

5  
Answered  
of  
session

Steps of designing a digital circuit to solve a real world problem is given below:

A. K-maps are used to simplify the equations 4

B. The truth table is developed 3

C. Implemented using logic gates 5

D. The problem is analyzed 1

E. Identify input variables and output variables 2

Find the correct order of execution.

Select one:

- a. A, C, B, D, E
- b. D, C, B, E, A
- c. B, D, E, C, A
- d. D, E, B, A, C
- e. A, C, E, B, D

Sunil analyzed a real-world problem to design a combinational circuit. He derived following equations by carefully going through the line numbers of truth table.

$$f = \sum (2, 3, 6, 15)$$

$$\underline{2} + \underline{4} = 16 //$$

$$don't\_care = \sum (5, 7, 11)$$

He needs your support to simplify these equations using a Karnaugh map (K-Map). Please write down the simplified Boolean equation by using English letters A, B, C, D as variables. (write  $\bar{A}B\bar{C}$  as  $A'BC'$ , don't keep spaces between letters)

Answer:

Next page 

idle

Online Exams

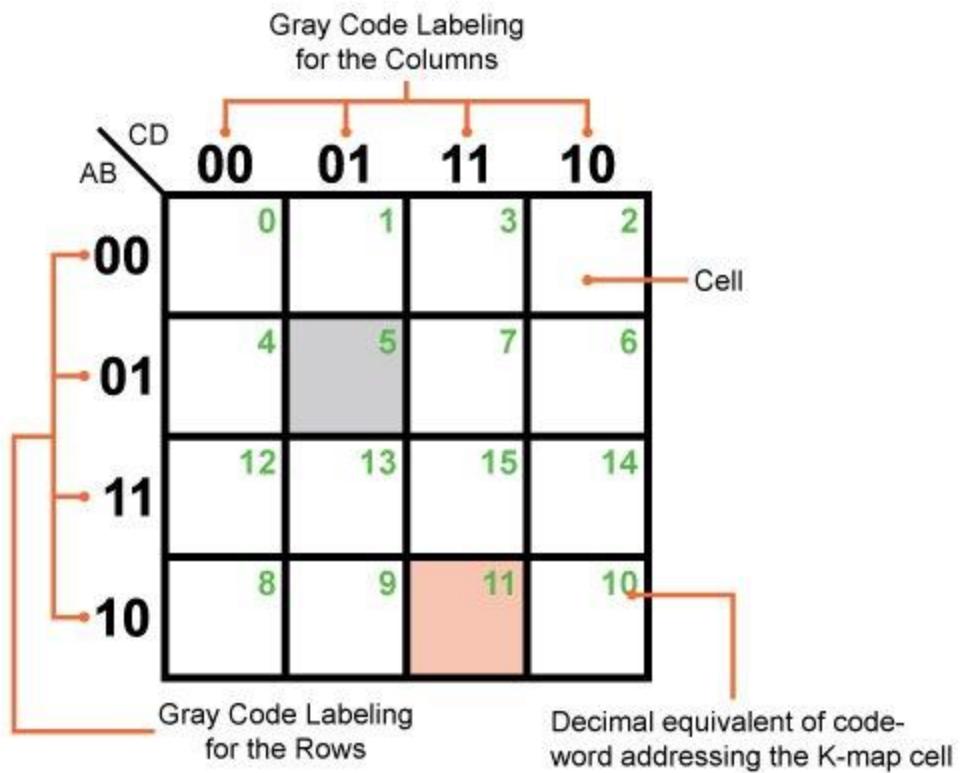
Sri Lanka Institute of Information Technology

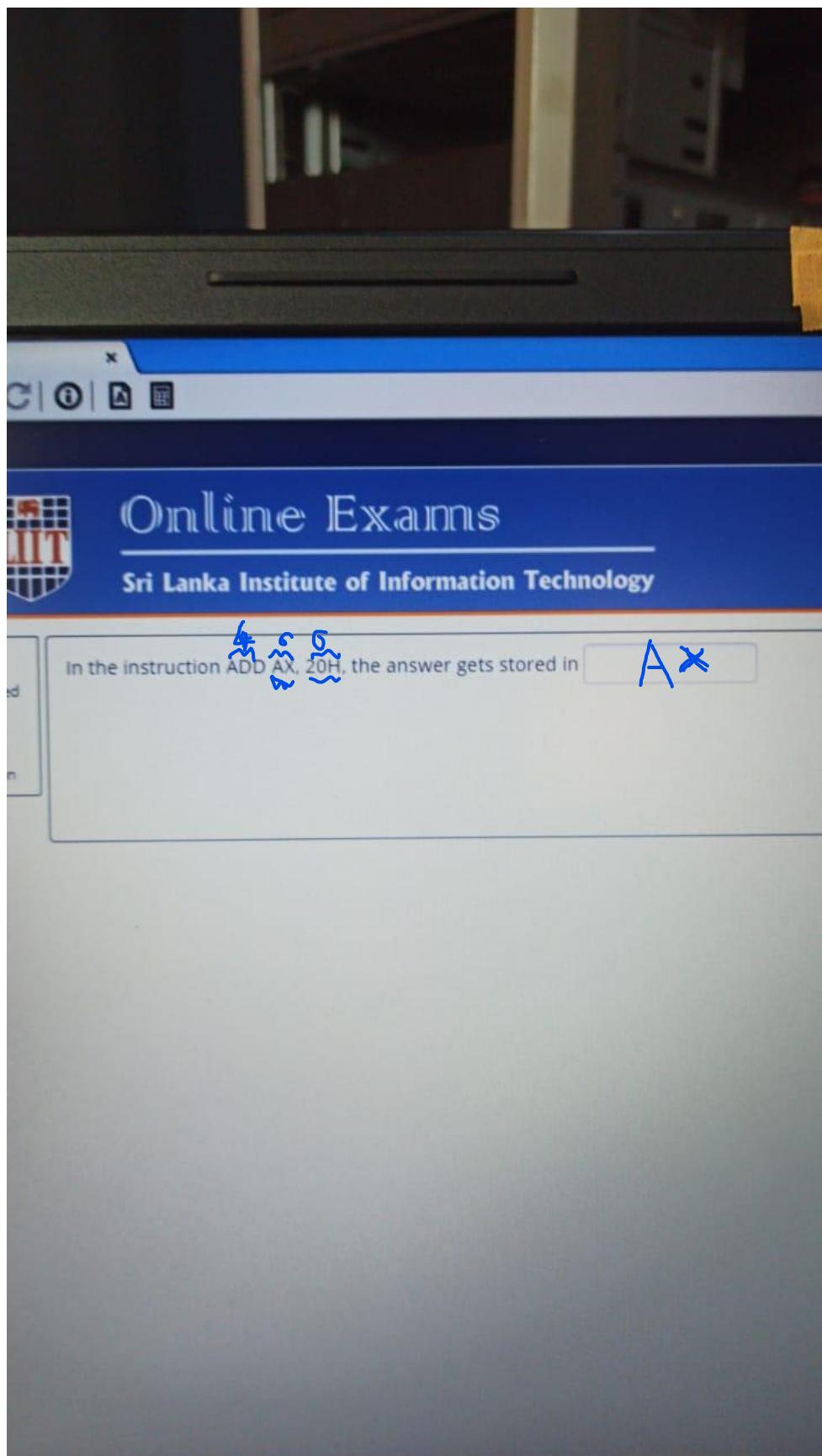
19  
answered  
out of  
question

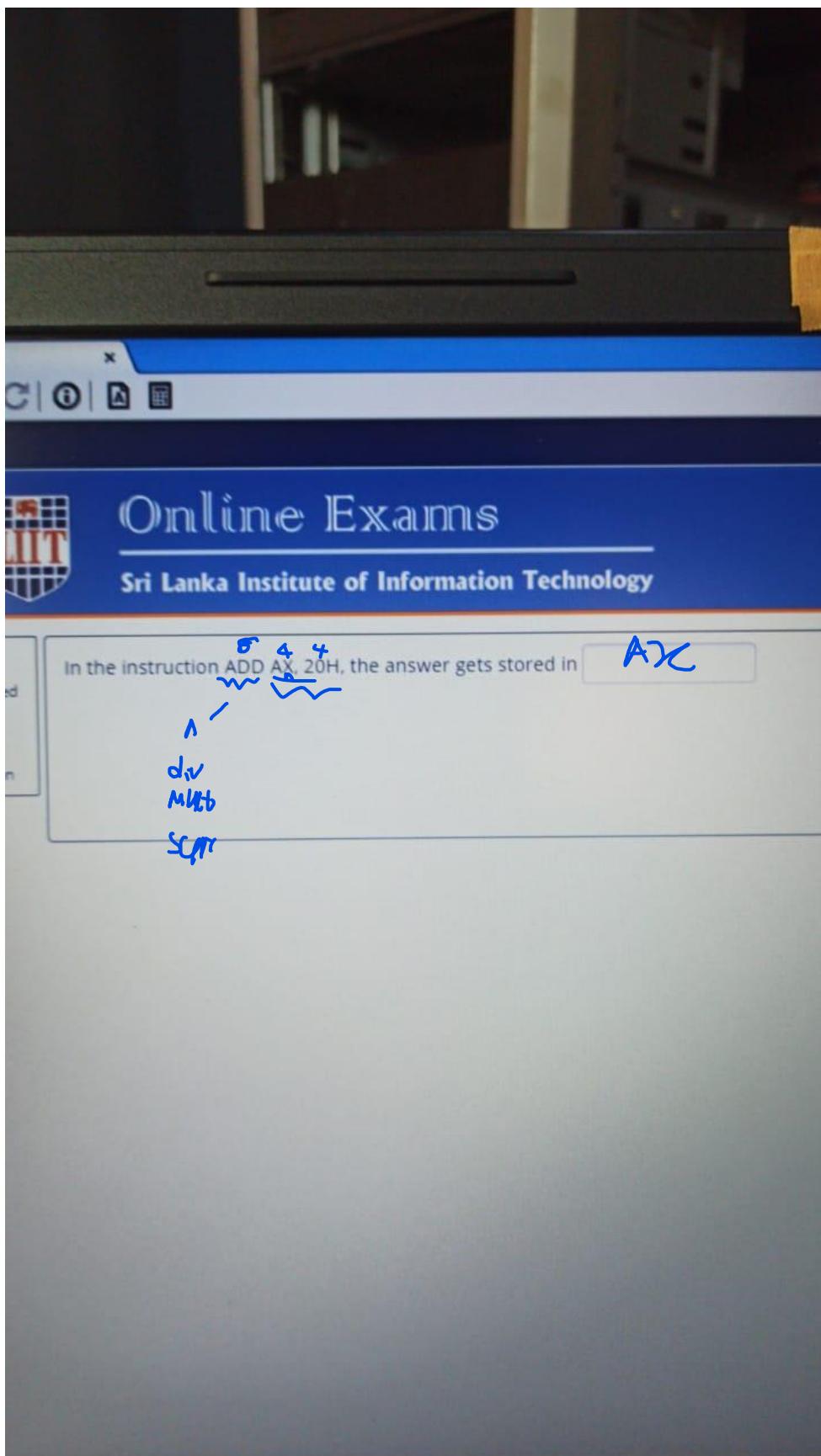
ADSL is the abbreviation of,

Select one:

- Asymmetric Dual Subscriber Line
- Asymmetric Digital System Line
- Asymmetric Digital Subscriber Line
- Asymmetric Dual System Line
- None of the mentioned is true.







The image shows a computer monitor displaying an online examination interface. The header of the page features the SLIIT logo and the text "Online Exams" and "Sri Lanka Institute of Information Technology". On the left side of the screen, there is a sidebar with the text "2 answered" and "of 2 questions". The main content area contains a question: "Complete the missing parts of the binary form of following IPv4 address: IPv4 Address: 198.168.10.1". Below this, there are two bullet points: "IPv4 Address in Binary:  .  . 00001010 . 00000001" and "How Many Hosts Can be Connected this Network:   $(2^8 - 2) = 254$ ". The monitor is positioned on a dark surface, and the Dell logo is visible at the bottom right of the monitor frame.

Online Exams

Sri Lanka Institute of Information Technology

A **K-ma P** can be used to replace Boolean Algebraic method, when simplifying a Boolean expression.

Flag question

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Online Exams

Sri Lanka Institute of Information Technology

**Excitation table** shows required input combination for a given change of state.

Quiz navigation

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STRUCTURED

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29	30				

ESSAY

31
----

FEEDBACK QUESTION

32
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Finish attempt



Question 1

Not yet answered  
Marked out of 0

Flag question

Select the correct statements about Dial up connection. (Select two)

Select one or more:

- Provides low speed ✓
- Doesn't provide a continuous connection, Need to dial up to connect. ✓
- Has a fixed monthly rental.
- Digital service.
- Each service is billed separately.

Next page

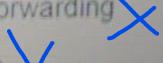
Select the most suitable statement.

Select one:

- Converged networks carry data, voice, video & images over the same network.
- Converged networks carry social networking data.
- Converged networks are LANs.
- Converged networks are private networks.
- None of the given statements are true

Select the correct statement about hubs.

Select one:

- Hub always broadcast messages.
- Hub functions are similar to switch. 
- Hub always unicast messages 
- Hub maintains a MAC table for data forwarding 
- None of the given statements are true. 

How to reduce file size and transmission times of digital data

Select one:

- a. Zipping
- b. Extracting
- c. Unzipping
- d. Compress
- e. Hiding

Select the correct statements about network characteristics. (Select two)

Select one or more:

- The data rate is measured by bits per second of a given link in the network. ✓
- Scalability indicates how many nodes are currently on the network. ✓
- The logical topology is the arrangement of cables, network devices, and end systems X
- Availability is a measure of the probability that the network will be available for use when it is required. X
- Reliability indicates the non-dependability of the components that make up the network. X



Sri Lanka Institute of Information Technology

select the answer which explains how SI and DI are used respectively

Select one:

- a. Used for multiplying and dividing, used as an address register
- b. Used with extended addressing commands, used in some addressing modes
- c. Used as an addressing register, used for multiplying and dividing
- d. Used in some addressing modes, used with extended addressing commands
- e. Used for arithmetic operation, used with extended addressing commands



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on

What is the process of converting information, such as text, numbers, photo or music into digital data that can be manipulated by electronic vise

Select one:

- a. Digitalization
- b. Transmission
- c. Electronic circuits
- d. Digital revolution
- e. Data compression

Next page



Question 9

Not yet answered

Marked out of  
1.00

Flag question

Select the most suitable statement.

Select one:

- Converged networks carry data, voice, video & images over the same network.
- Converged networks carry social networking data.
- Converged networks are LANs.
- Converged networks are private networks.
- None of the given statements are true.

Next page

 Online Exams

Sri Lanka Institute of Information Technology

What is the size of data bus and address bus in 8086 microprocessor respectively

Select one:

- a. 8 bit/ 16 bit
- b. 32 bit/ 32 bit
- c. 16 bit/ 8 bit
- d. 16 bit/ 32 bit
- e. 8 bit/ 64 bit

Mutability of storage devices explains

Select one:

- a. How storage locations are addressed
- b. What happens to the content when power is not available
- c. How storage locations are addresses
- d. Time latency due to seek time and rotational delay
- e. Weather the content is read/write or read only

A logic gate can have

Select one:

- a. A single input and a single output ✓
- b. Many inputs and many outputs ✗
- c. Many inputs and a single output
- d. Single input and many outputs ✗
- e. None of the above

ed out of

Flag question

Select one or more:

- There are total number of two broadcast domains in the network.
- There are total number of six broadcast domains in the network.
- There are total number of four broadcast domains in the network.
- There are total number of five collision domains in the network.
- There are total number of seven collision domains in the network.
- There are total number of four collision domains in the network.

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Question 17  
Not yet answered  
Marked out of 1.00  
Flag question

Select the correct statement about hubs.

Select one:

- Hub always broadcast messages.
- Hub functions are similar to switch.
- Hub always unicast messages.
- Hub maintains a MAC table for data forwarding
- None of the given statements are true.

What service of an operating system is related with allocating and deallocating memory space as needed

Select one:

- a. Protection and security
- b. Storage management
- c. Process management
- d. File management
- e. Memory management



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in

John typed 'ipconfig' command while being connected to his home WiFi and obtained the following result. How many IPv4 computers(devices) can be connected to John's home network?

Wireless LAN adapter Wi-Fi:

```
Connection-specific DNS Suffix . . . . .  
IPv6 Address . . . . . : 2402:4000:2080:76c8:74a5:2827:c1c8:4  
IPv6 Address . . . . . : 2402:4000:2182:5b3f:5895:effe:e4bc:5f63  
IPv6 Address . . . . . : 2402:4000:2182:5b3f:74a5:2827:c1c8:4  
Temporary IPv6 Address . . . . . : 2402:4000:2182:5b3f:a4e4:9e4c:8590:c00  
Link-local IPv6 Address . . . . . : fe80::5095:effe:e4bc:5f63%4  
IPv4 Address . . . . . : 192.168.8.106  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : fe80::76a5:28ff:fe27:c1c8%4  
192.168.8.1
```

Answer:

(2<sup>8</sup>-2)-

**Online Exams**  
Sri Lanka Institute of Information Technology

**Question 31**  
Not yet answered  
Marked out of 7.50  
 Flag question

Nimal and his team analyzed a real-world problem to design a combinational circuit. They derived following truth table to record input (A, B, C, D) and output (f) behavior. They entered "X" in the output column where they *don't care* whether output is "0" or "1".

A	B	C	D	f
0	0	0	0	1
0	0	0	1	X
0	0	1	0	1
0	0	1	1	1
0	1	0	0	0
0	1	0	1	0
0	1	1	0	0
0	1	1	1	0

A	B	C	D	f
1	0	0	0	X
1	0	0	1	1
1	0	1	0	0
1	0	1	1	X
1	1	0	0	0
1	1	0	1	0
1	1	1	0	0
1	1	1	1	0

He needs your support to simplify output behavior function using a Karnaugh map (K-Map). Please write down the simplified Boolean function by using English letters A, B, C, D as variables. (write  $\bar{A}B\bar{C}$  as  $A'BC$ , don't keep spaces between letters).

Answer:

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STRUCTURED

21	22	23	24	25	26	27
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ESSAY

31
----

FEEDBACK QUESTION

32
----

Finish attempt ...  
Time left 1:10:30

What is the example of first generation computer

Select one:

- a. UNIVAC
- b. STAR 1000
- c. IBM 4341
- d. DEC 10
- e. PDP 1

Select the incorrect statement

Select one:

- a. SPARC and Power PC are desktop computers that use RISC processors
- b. In RISC processors, more emphasis is given to software
- c. RISC normally has low cycles per second, large code sizes
- d. In CISC, more transistors are used for storing complex instructions
- e. Compiler workload is low in RISC based machines

Copper cables are one of the most popular wired transmission medium because,

Select one:

- It uses differential signaling for signal transmission.
- It is less costly in maintenance and installation.
- It is the only guided medium available.
- Copper cables can bend in any direction.
- There are multiple number of cables.

A combinational circuit that converts binary information from the n coded inputs to a maximum of  $2^n$  unique outputs is called a

Decoder

Next page

What instructions can only be executable in kernel mode

Select one:

- a. Program
- b. Instructions designated as privileged
- c. Firmware
- d. Operating system
- e. None of the above

24

answered  
out of  
question

General Purpose registers are built with

micro Processors

Which of the following statement is incorrect regarding the 'Internet' ?

Select one:

- a. Internet is a collection of interconnected networks
- b. Internet is the largest WAN topology
- c. Internet protocols are managed by IETF
- d. Internet is governed by International Standardization Organization (ISO)

What is the correct statement about a Collision Domain?

Select one:

- A collection of two or more computers in which, if more than one sender tries to send data simultaneously, the signals will collide in the transmission media and make all the sent information unusable.
- In a router, all ports are in a single collision domain
- A collection of two or more computers in which, if one sender tries to send data, the signal will collide in the transmission media and make the sent information unusable.
- A collection of two or more computers in which, one computer tries to send data after another computer, the signals will collide in the transmission media and make all the sent information unusable.
- None of the mentioned is true.



## Online Exams

Sri Lanka Institute of Information Technology

Seq Cir

is an electronic circuit having a combinational circuit with a memory.

John typed 'ipconfig' command while being connected to his home WiFi and obtained the following result. How many IPv4 computers(devices) can be connected to John's home network?

```
IPv4 Address . . . . . : 172.20.2.1 (Preferred)
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . : 2001:470:ed3d:1000::1
                           fe80::2e8:4cff:fe68:43d0%3
                           172.20.0.1
DHCPv6 IAID . . . . . : 60578958
DHCPv6 Client DUID . . . . . : 00-01-00-01-1E-88-A9-CE-9C-5C-8E-8F-2F-B0
DNS Servers . . . . . : 2001:470:ed3d:1000::11
                        2001:470:ed3d:1000::12
                        172.20.0.11
                        172.20.0.12
NetBIOS over Tcpip. . . . . : Enabled
Connection-specific DNS Suffix Search List :
                                bugha.net-.sg-.org-
```

Answer:

$$(2^{16} - 2) = 65534$$

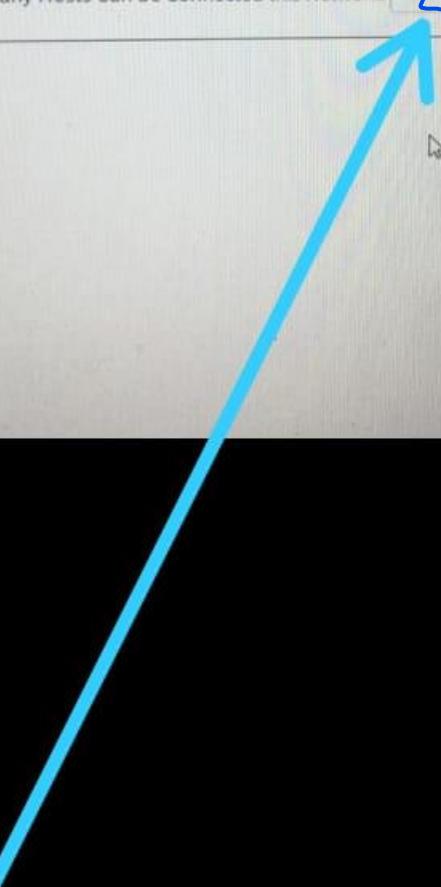
Online Exams

Sri Lanka Institute of Information Technology

Complete the missing parts of the binary form of following IPv4 address:

IPv4 Address: 224.179.11.4

- IPv4 Address in Binary:  .  .  .
- How Many Hosts Can be Connected this Network:



# Online Exams

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A combinational circuit that converts binary information from the n coded inputs to a maximum of  $2^n$  unique outputs is called a  *decoder*

Next page

7  
Answered  
Part of  
Question

Address of the next instruction of the program is stored in

*Instruction Point*



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

## Sri Lanka Institute of Information Technology

A semiconductor memory cell is fabricated with

transistors



Online Exams

Sri Lanka Institute of Information Technology

The difference between memory and storage is that the memory is  and storage is  permanent.

[Next page](#)

## Sri Lanka Institute of Information Technology

is an electronic circuit having a combinational circuit with a memory.

## Sri Lanka Institute of Information Technology

transfer data/instruction to and from CPU.



Online Exams

Sri Lanka Institute of Information Technology

is loaded to main memory at the end of Bootstrapping process.



Online Exams

Sri Lanka Institute of Information Technology

ion 30

et answered

ed out of

ag question

A semiconductor memory cell is fabricated with .



Question 31

Not yet answered  
Marked out of  
7.50 Flag question

Nimal and his team analyzed a real-world problem to design a combinational circuit. They derived following truth table to record input (A, B, C, D) and output (f) behavior. They entered "X" in the output column where they *don't care* whether output is "0" or "1".

A	B	C	D	f
0	0	0	0	1
0	0	0	1	0
0	0	1	0	1
0	0	1	1	X
0	1	0	0	0
0	1	0	1	0
0	1	1	0	1
0	1	1	1	0

A	B	C	D	f
1	0	0	0	X
1	0	0	1	0
1	0	1	0	1
1	0	1	1	0
1	1	0	0	0
1	1	0	1	0
1	1	1	0	X
1	1	1	1	0

He needs your support to simplify output behavior function using a Karnaugh map (K-Map). Please write down the simplified Boolean function by using English letters A, B, C, D as variables. (write  $\bar{A}B\bar{C}$  as  $A'BC'$ , don't keep spaces between letters).

Answer:

## Quiz navigation

MCQ

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	

STRUCTURED

21	22	23	24	25	26	27
28	29	30				

ESSAY

31
32

FEEDBACK QUESTION

32
Finish attempt...

## Online Exams

## Sri Lanka Institute of Information Technology

ed  
on

Read the following sentence and select the most appropriate word from the given list to make the sentence *non-discriminatory*. \*Type your answer in the given space.

\*IMPORTANT: When typing the answer make sure that all are simple letters as given in the list and that the spellings are correct . If not, the system will mark your answer as wrong. In addition, do not type any punctuation marks.

(principal, staff members, their, one's, people, one, partners )

The college ..... invites the students to send a proposal outlining any problems they may face when studying abroad and suggesting ways in which the course could address these problems.

Answer:



Next page

29 30 31 JANUARY

X C ⓘ

Online Exams

Sri Lanka Institute of Information Technology

6 answered  
out of  
questions

Read the following sentence and select the most appropriate word from the given list to make the sentence discriminatory. \*Type your answer in the given space.

\*IMPORTANT: When typing the answer make sure that all are simple letters as given in the list and that the sentence is correct. If not, the system will mark your answer as wrong. In addition, do not type any punctuation marks.

( partners, an , staff members , who , their , his, partners, they , customer )

Shannon was hoping that a doctor would give ..... opinion.

Answer: his

Moodle

← → X C | O | B

 Online Exams

Sri Lanka Institute of Information Technology

**Question 8**  
Not yet answered  
Marked out of 4.00

Read the following sentence and select the most appropriate word from the given list to make it discriminatory. \*Type your answer in the given space.

\*IMPORTANT: When typing the answer make sure that all are simple letters as given in the list below. If not, the system will mark your answer as wrong. In addition, do not type any punctuation marks (principal, staff members, their, one's, people, one, partners )

Guests are cordially invited to attend with their

hp

500  
Flag question

These entry-level mobile-intensive industries. Also, a similar recent doubling of import duties on electronics, including related inputs and parts, is an admission by the government of the country's lack of competence in the highly labour intensive, low-skilled and repetitive tasks of processing or assembling duty-exempt imported inputs to produce and export finished mobile phones and TVs. And, in textiles and apparel exports, India is now being outperformed not only by China but also by Bangladesh and Vietnam.

To anyone who is aware of the panoply of India's restrictive labour regulations (about 200 labour laws, with over a fourth being central acts), it does not come as a surprise that India is unable to grasp its natural comparative advantage in labour-intensive products. The Industrial Disputes Act (IDA) requires firms with 100 or more workers to seek government permission to retrench or lay off any workers, which is rarely granted. The Industrial Employment (Standing Orders) Act, 1946 requires employers in firms with 100 or more workers (50 or more in certain states) to seek permission even for moving a worker from one task to another. And the Trade Unions Act allows any seven employees to form a union, thereby using up a large proportion of the firm's managerial resources to deal with several unions within itself. Through this regulation, unions have the right to strike and represent workers in legal disputes with employers. Last but not the least, The Contract Labour (Regulation And Abolition) Act, 1970 restricts, and even prohibits, the use of contract workers for certain tasks. Thus, these labour regulations effectively prevent firms from using labour-intensive methods of production. And, since these laws hold above certain threshold employment levels, firms often have an incentive to remain small and 'informal'.

Which of the following is/are true about India's labour laws mentioned in the passage?

I. They are applicable below a certain threshold level.  
II. Most of them are central acts.  
III. They create conditions that prevent firms from using labour intensive methods of production.

As per the author, what could be some reasons for imposition of import duties on some products?

I. Lack of competitiveness  
II. Lack of infrastructure  
III. Restrictive government regulations

As per the passage, the government has doubled import duty on which of the following?

I. Kites  
II. Electronics  
III. Edible items

As per the passage, what can be inferred from India not being able to 'grasp its natural comparative advantage in labour-intensive products'?

Which of the following is/are true with respect to the Trade Unions Act mentioned in the passage?

I. As per this law, Unions have the right represent workers in legal disputes with employers.  
II. There is restriction on use of contract workers for certain tasks.  
III. A minimum of 5 workers are needed to form a Trade Union.

ACADEMIC INTEGRITY DECLARATION  
I  
QUESTIONS  
1 2 3 4 5 6 7 8 9  
FEEDBACK ON THE EXAM  
10  
Finish attempt...  
Time left 1:05:26

Next page

The screenshot shows a web browser window with a blue header bar. Below the header, the page title is "Online Exams" followed by the logo of the "Sri Lanka Institute of Information Technology". The main content area contains a question and answer field.

Read the following sentence and select the most appropriate word from the given list to fill in the given space.

\*IMPORTANT: When typing the answer make sure that all are simple letters as given in the list. The system will mark your answer as wrong. In addition, do not type any punctuation marks.

(principal, their, one's, people, one )

Most ..... , who are interested in music, take lessons out of school.

Answer:

SLITT Online Exams

Sri Lanka Institute of Information Technology

18 answered out of 20 question

it20647896 Herath

Read the following sentence and select the most appropriate word from the given list to make the sentence non-discriminatory. \*Type your answer in the given space.

\*IMPORTANT: When typing the answer make sure that all are simple letters as given in the list and that the spellings are correct. If not, the system will mark your answer as wrong. In addition, do not type any punctuation marks.

(principal, staff members, their, one's, people, one )

It's sometimes hard for ..... to choose a film that fits the mood purely on the basis of the poster or the description on the cover of the DVD.

Answer: \_\_\_\_\_

Next page

Quiz navigation

ACADEMIC INTEGRITY

QUESTIONS

1 2 3 4  
8 9  
10

FEEDBACK ON THE EXAM

Finish attempt

Time left: 1:08:05

section 7  
0 yet answered  
marked out of 0.00  
Flag question

Complete the following essay by selecting the most appropriate word/phrase from the given list.

There are many factors involved in achieving success. But what if ..... end with a poor result? It is not failures themselves that lead to success, but rather a combination of natural ability, persistence, and even luck.

When I started ..... swimming, at age seven, I had some natural ability.

Swimming came easily to me. ..... shown the correct techniques for strokes, turns, and starts, I was able to employ them much quicker than many of my teammates. In fact, within a few months, I was swimming faster than some kids who were in the team for a few years.

They had "failed" many times in the meets they swam in, but it didn't seem to help them understand the techniques or ..... better strategies.

I "failed" just a few times that first year, but my times were better. My natural ability helped me to achieve more ..... their numerous failures.

..... eight years, I have attended practice at least three days a week, with a short break between each of two seasons.

I swim ..... 300 days a year.

This persistence has allowed me ..... both technique and speed.

..... those who don't continue to practice frequently and find ways to swim better and faster don't make the times I do. In my old team, we practiced for an hour and a half, three days a week, forty weeks a year.

In my new team, practice is five days a week for two hours, and we have just four weeks ..... This new practice schedule has helped me to take seconds off every time, and my new team as a whole performs better than the old one.

Luck is ..... a factor in success.

I once won a regional meet because my competitor, who was ..... a second ahead, made an error and was disqualified.

Another time, a competitor was sick on the day of the meet and didn't swim his ..... (which would have beaten me).

My successes at those meets involved, at least in part, luck.

..... failure is just one part of success. The more important factors are natural ability, persistence, and luck.

countless failures  
competitive  
When  
to come up with  
In comparison  
For the past  
at least  
to improve  
In comparison with  
off a year  
also  
one hundredth of  
best time  
meets  
Therefore

ead the following sentence and select the most appropriate word from the given list to make answer in the given space.

**IMPORTANT:** When typing the answer make sure that all are simple letters as given in the list system will mark your answer as wrong. In addition, do not type any punctuation marks.

(principal, staff members, student , the , their, one's, people, the student, partners)

A student must work hard if .....wishes to get good grades.

Answer:



on 26

et answered

ed out of

g question

For the given IP address find the following.

IP address: - 192.168.200.34

- Network address:  .  .  .
- Subnet mask:  .  .  .
- Broadcast address: 192 . 168 . 200 .
- 1<sup>st</sup> usable IP address: 192 . 168 . 200 .
- Last usable IP address: 192 . 168 . 200 .
- Number Hosts that can be connected to this network:

# Online Exams

Sri Lanka Institute of Information Techno

For the given IP address find the following.

IP address: - 174.16.20.13

- Network address:  .  .  .
- Subnet mask:  .  .  .
- Broadcast address: 174 . 16 .  .
- 1<sup>st</sup> usable IP address: 174 . 16 .  .
- IP Address Class:  (Only type the Letter)



## Online Exams

Sri Lanka Institute of Information Technology

Sunil analyzed a real-world problem to design a combinational circuit. He derived following equations by carefully going through the line numbers of truth table.

$$f = \sum(1, 5, 9, 15)$$

$$don't\_care = \sum(3, 11, 13)$$

He needs your support to simplify these equations using a Karnaugh map (K-Map). Please write down the simplified Boolean equation by using English letters A, B, C, D as variables. (write  $\bar{A}B\bar{C}$  as  $A'BC'$ , don't keep spaces between letters)

Answer:

Sunil analyzed a real-world problem to design a combinational circuit. He derived following equations by carefully going through the line numbers of truth table.

$$f = \sum (9, 12, 14, 15)$$

$$\text{don't\_care} = \sum (4, 11, 13)$$

He needs your support to simplify these equations using a Karnaugh map (K-Map). Please write down the simplified Boolean equation by using English letters A, B, C, D as variables. (write  $\bar{A}B\bar{C}$  as  $A'BC'$ , don't keep spaces between letters)

Answer:

**Online Exams**

**Sri Lanka Institute of Information Technology**

John typed 'ipconfig' command while being connected to his home WiFi and obtained the following result. How many IPv4 computers(devices) can be connected to John's home network?

```
Wireless LAN adapter Wi-Fi:  
Connection-specific DNS Suffix . :  
IPv6 Address . . . . . : 2402:4000:2080:76c8:74a5:2827:c1c0:4  
IPv6 Address . . . . . : 2402:4000:2182:5b3f:5095:effe:e4bc:5f63  
IPv6 Address . . . . . : 2402:4000:2182:5b3f:74a5:2827:c1c0:4  
Temporary IPv6 Address . . . . . : 2402:4000:2182:5b3f:a4e4:9e4c:8590:cb0  
Link-local IPv6 Address . . . . . : fe80::5095:effe:e4bc:5f63%4  
IPv4 Address . . . . . : 192.168.8.106  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : fe80::76a5:28ff:fe27:c1c0%4  
192.168.8.1
```

Answer:

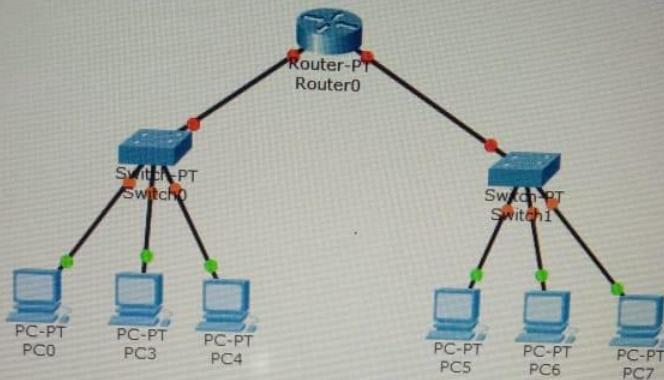
**Question 20**

Not yet answered

Marked out of  
1.00

Flag question

Which of the following statements describe the network shown in the graphic? (Select two)



Select one or more:

- There are total number of eight collision domains in the network.
- There are total number of two broadcast domains in the network.
- There are total number of six broadcast domains in the network.
- There are total number of seven collision domains in the network.
- There are total number of four broadcast domains in the network.
- There are total number of four collision domains in the network.



# Online Exams

## Sri Lanka Institute of Information Technology

**Question 16**

Not yet answered

Marked out of  
0

Flag question

Select the correct elements/components that make up a network.

Select one:

- Device, Medium, Message, Protocols.
- Service, Medium, Packet, Rules.
- Device, Wire, Message, Rules.
- Service, Medium, Packet, Protocols.
- Device, Medium, Message, Rules.

Sunil analyzed a real-world problem to design a combinational circuit. He derived following equations by carefully going through the line numbers of truth table.

$$f = \sum (1, 5, 9, 15)$$

$$don't\_care = \sum (3, 11, 13)$$

He needs your support to simplify these equations using a Karnaugh map (K-Map). Please write down the simplified Boolean equation by using English letters A, B, C, D as variables. (write  $\bar{A}B\bar{C}$  as  $A'BC'$ , don't keep spaces between letters)

Answer:  I

Finish attempt

## Online Exams

Sri Lanka Institute of Information Technology

In the instruction ADD AX, 20H, the answer gets stored in

## Online Exams

### Sri Lanka Institute of Information Technology

John typed 'ipconfig' command while being connected to his home WiFi and obtained the following result. How many IPv4 computers(devices) can be connected to John's home network?

Wireless LAN adapter Wi-Fi:

```
Connection-specific DNS Suffix . . . . . : 2402:4000:2080:76c8:74a5:2827:c1c0:4
IPv6 Address. . . . . : 2402:4000:2182:5b3f:5095:effe:e4bc:5f63
IPv6 Address. . . . . : 2402:4000:2182:5b3f:74a5:2827:c1c0:4
Temporary IPv6 Address. . . . . : 2402:4000:2182:5b3f:a4e4:9e4c:8590:cb0
Link-local IPv6 Address . . . . . : fe80::5095:effe:e4bc:5f63%4
IPv4 Address. . . . . : 192.168.8.106
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : fe80::76a5:28ff:fe27:c1c0%4
192.168.8.1
```

Answer:



## Online Exams

### Sri Lanka Institute of Information Technology

Complete the missing parts of the binary form of following IPv4 address:

IPv4 Address: 198.169.11.3

- IPv4 Address in Binary:  .  . 00001011 . 00000011
- How Many Hosts Can be Connected this Network:  

Moodle

Online Exams

Sri Lanka Institute of Information Technology

Question 16

Not yet answered

Marked out of 1.25

Flag question

Select the correct logic circuit categories

Select one:

- a. Input and output
- b. Combinational and sequential
- c. Comparator circuits
- d. Multiplexer
- e. Encoder

Question 31

Not yet answered

Marked out of 8.00

Flag question

Sunil analyzed a real-world problem to design a combinational circuit. He derived following equations by carefully going through the line numbers of truth table.

$$f = \sum (9, 12, 14, 15)$$
$$\text{don't\_care} = \sum (4, 11, 13)$$

He needs your support to simplify these equations using a Karnaugh map (K-Map). Please write down the simplified Boolean equation by using English letters A, B, C, D as variables. (write  $\bar{A}B\bar{C}$  as  $A'BC'$ , don't keep spaces between letters)

Answer: | I



## Online Exams

Sri Lanka Institute of Information Technology

n 13

answered

1 out of

g question

What is the meaning of ADD and CMP

Select one:

- a. add two numbers and compare number
- b. Storage elements and next stage
- c. Output information to device
- d. Storage element and unconditional jump
- e. Unconditional jump and store information to RAM



Sri Lanka Institute of Information Technology

n 20

answered

1 out of

g question

Select the correct statement.

Select one:

- A private network is not directly connected to Internet.
- In a private network, it is mandatory to follow Internet standards.
- None of the given answers are true.
- If a network is directly connected to Internet, it will become a part of Internet.
- A private network is a set of interconnected Intranets.

Question 25

Not yet answered

Marked out of  
1.00

 Flag question

Write the number of bits used in an IPv6 address.

Answer: 128

Binary coded decimal for number 12 is 0001 0010. Binary coded decimal for number 45 is 0100 0101. What is the binary coded decimal for number 52

Select one:

- a. 0110 0010
- b. 0101 0010
- c. 0001 0100
- d. 1101 0010
- e. 0101 0011

[Next page](#)

The image shows a laptop screen displaying an online examination interface. The header of the page features the SLIIT logo and the text "Online Exams" and "Sri Lanka Institute of Information Technology". Below the header, a question is displayed: "Select the incorrect statement." The question asks to select one statement from five options, all of which begin with a radio button. The options are:

- a. RISC normally has low cycles per second, large code sizes
- b. In CISC, more transistors are used for storing complex instructions
- c. In RISC processors, more emphasis is given to software
- d. Compiler workload is low in RISC based machines
- e. SPARC and Power PC are desktop computers that use RISC processors

The laptop model, "ASUS VivoBook", is visible at the bottom of the screen. The keyboard of the laptop is partially visible at the bottom of the frame.

What is the meaning of "Broadcasting" in Networking?

Select one:

- Addressing a packet to all except a particular machine.
- Addressing a packet to a particular machine.
- Addressing a packet to all machines.
- Addressing a packet to group of machines.
- None of the mentioned is correct.

Question 16  
Not yet answered  
Marked out of  
1.00  
[Flag question](#)

Sri Lanka Institute of Information Technology

Select the correct statement about hubs.

Select one:

- Hub functions are similar to switch.
- Hub always unicast messages.
- None of the given statements are true.
- Hub maintains a MAC table for data forwarding
- Hub always broadcast messages.

What are the correct statements about "MAC address table"? (select two)

Select one or more:

- MAC address table is created for each computer
- MAC address table is a collection of MAC addresses with the respective connected ports
- None of the given answers are true
- MAC address table is used by routers
- MAC address table is used by switches

Steps of an instruction cycle is given below:

- A. Instruction fetch
- B. Data operation
- C. Instruction operation decoding
- D. Data store
- E. Operand fetch

Find the correct order of execution.

Select one:

- a. B, A, C, D, E
- b. A, C, E, B, D
- c. D, C, A, B, E
- d. B, A, E, C, D
- e. A, C, B, D, E

# Online Exams

Sri Lanka Institute of Information Technology

Which of the following is not a file extension of a compressed

Select one:

- a. .tar.gz
- b. .zip
- c. All are compressed file extensions
- d. .gz
- e. .pkg



## Online Exams

Sri Lanka Institute of Information Technology

Copper cables are one of the most popular wired transmission medium because,

Select one:

- There are multiple number of cables.
- It is the only guided medium available.
- It is less costly in maintenance and installation.
- Copper cables can bend in any direction.
- It uses differential signaling for signal transmission.





What is "Attenuation" in a data transmission medium?

Select one:

- One signal getting mixed up with another signal.
- Loss of signal strength.
- None of the mentioned is true.
- An unwanted signal component.
- Reflecting of a signal at an interface.



**Question 16**

Not yet answered

Marked out of  
1.25

Flag question

Choose the correct storage device that works as a non-volatile memory

Select one:

- a. Registers
- b. S-RAM
- c. D-RAM
- d. Cache memory
- e. BIOS chip

Steps of an instruction cycle is given below:

- A. Instruction fetch
- B. Data operation
- C. Instruction operation decoding
- D. Data store
- E. Operand fetch

Find the correct order of execution.

Select one:

- a. B, A, C, D, E
- b. A, C, E, B, D
- c. D, C, A, B, E
- d. B, A, E, C, D
- e. A, C, B, D, E



## Online Exams

Sri Lanka Institute of Information Technology

**Question 12**

Not yet answered

Marked out of  
1.25

Flag question

Which of the following statements are true? (select two).

Select one or more:

- Point-to-Point connection provides a dedicated link between the two devices.
- A multipoint connection is a connection established between more than two devices.
- Multi-point connection is always build using a wireless media.
- Point to point connection is always build using a wireless media.
- Point to point connection is always build using a copper cable.





What does a Protocol define?

Select one:

- Protocol defines when data is communicated.
- Protocol defines what data is communicated.
- None of the mentioned is true.
- Protocol defines how data is communicated.
- Protocol defines why data is communicated.



## Online Exams

Sri Lanka Institute of Information Technology

1020557000 Ranawaka P.M. 1020557000

### Question 24

Not yet answered

Marked out of  
3.00

Flag question

Complete the missing parts of the binary form of following IPv4 address:

IPv4 Address: 172.16.10.252

- IPv4 Address in Binary:  .  .  .
- IP Address Class:

### Quiz navigation

#### DECLARATION

1

#### MCQs

2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23						

#### STRUCTURED

24

25

26

27

28

29

30

31

New page

# Online Exams

Sri Lanka Institute of Information Technology

For the given IP address find the following.

IP address: - 192.168.168.2

- Network address:  .  .  .
- Subnet mask:  .  .  .
- Broadcast address: 192 . 168 . 168 .
- 1<sup>st</sup> usable IP address: 192 . 168 . 168 .
- Last usable IP address: 192 . 168 . 168 .
- IP Address Class:  (Only type the Letter)

[Next page](#)

Question 17

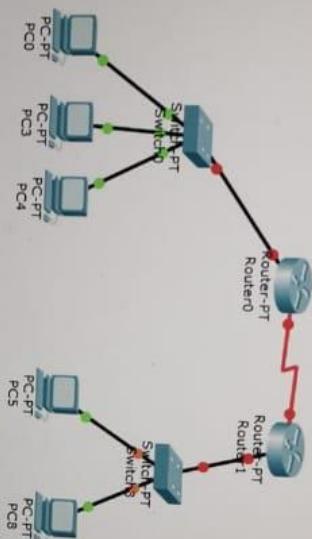
Not yet answered

Marked out of

1.25

Flag question

Which of the following statements describe the network shown in the graphic? (Select two)



- Select one or more:
- There are total number of four collision domains in the network.
  - There are total number of four broadcast domains in the network.
  - There are total number of eight collision domains in the network.
  - There are total number of seven collision domains in the network.
  - There are total number of two broadcast domains in the network.
  - There are total number of three broadcast domains in the network.

☰ Qu

DECLAR

MQOS

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ESSAY

31

Finish attempt...

Time left 1:25:19

File x

Sri Lanka Institute of Information Technology

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Which of the following statements describe the network shown in the graphic? (Select one or more)

```
graph TD; Router0[Router-PT Router0] --- SwitchU[Switch-PT SwitchU]; SwitchU --- PC0[PC-PT PC0]; SwitchU --- PC1[PC-PT PC1]; SwitchU --- PC2[PC-PT PC2]; HubD[Hub-PT HubD] --- PC3[PC-PT PC3]; HubD --- PC4[PC-PT PC4]; HubD --- PC5[PC-PT PC5]; HubD --- Router0
```

Select one or more:

- There are total number of two broadcast domains in the network.
- There are total number of four broadcast domains in the network.
- There are total number of five collision domains in the network.
- There are total number of seven collision domains in the network.
- There are total number of four collision domains in the network.
- There are total number of six broadcast domains in the network.

acer

**Online Exams**

Sri Lanka Institute of Information Technology

Select the correct statement.

Select one:

- In a private network, it is mandatory to follow Internet standards.
- A private network is a set of interconnected Intranets.
- None of the given answers are true.
- A private network is not directly connected to Internet.
- If a network is directly connected to Internet, it will become a part of Internet.

Moodle

← → X C | O | A

 Online Exams

Sri Lanka Institute of Information Technology

**Question 16**

Not yet answered

Marked out of 1.00

Flag question

Match the given IPv4 Address to the correct Class

130.59.135.4	Class B
210.59.135.4	Class C
10.59.135.4	Class A
227.21.6.173	Class D

→

The screenshot shows a web browser window titled "Online Exams" from "Sri Lanka Institute of Information Technology". The main content area displays a matching exercise for the ISO-OSI layers. The instructions say "Match the description with the appropriate ISO-OSI Layer". There are four descriptions on the left and four corresponding dropdown menus on the right, each with a small downward arrow icon.

Description	Layer
Translate, Encrypt & Compress Data	Presentation Layer
Allows users to access network resources	Network Layer
Provide reliable process to process message delivery	Transport Layer
Organizes bits into frames which helps hop-to-hop delivery	Data Link Layer

**Online Exams**

Sri Lanka Institute of Information Technology

Calculate the number of total number of storage locations available for 8 bits of information

Select one:

- a. 16
- b. 32
- c. 127
- d. 256
- e. 255

The screenshot shows a web-based online examination interface. At the top, there is a blue header bar with three circular icons on the left. Below the header, the text "Online Exams" is displayed in a large, stylized font, followed by a horizontal line. Underneath the line, the text "Sri Lanka Institute of Information Technology" is written in a bold, blue font. To the left of the main content area, there is a vertical sidebar with a grid logo and the letters "IT". The main content area contains a question and a list of five options for selection.

What does BIU of the 8086 architecture stands for

Select one:

- a. Bug Intel Unit
- b. Bus Interface Unit
- c. Bus Interface Union
- d. Bug Interface Unit
- e. Bus Intel Unit

The screenshot shows a web-based online examination system. At the top, there is a blue header bar with the text "Online Exams" and "Sri Lanka Institute of Information Technology". Below the header, there is a question and a list of five multiple-choice options. The question asks: "What is the meaning of ‘Broadcasting’ in Networking?". The options are:

- Addressing a packet to group of machines.
- Addressing a packet to all machines.
- Addressing a packet to a particular machine.
- Addressing a packet to all except a particular machine.
- None of the mentioned is correct.



# Online Exam

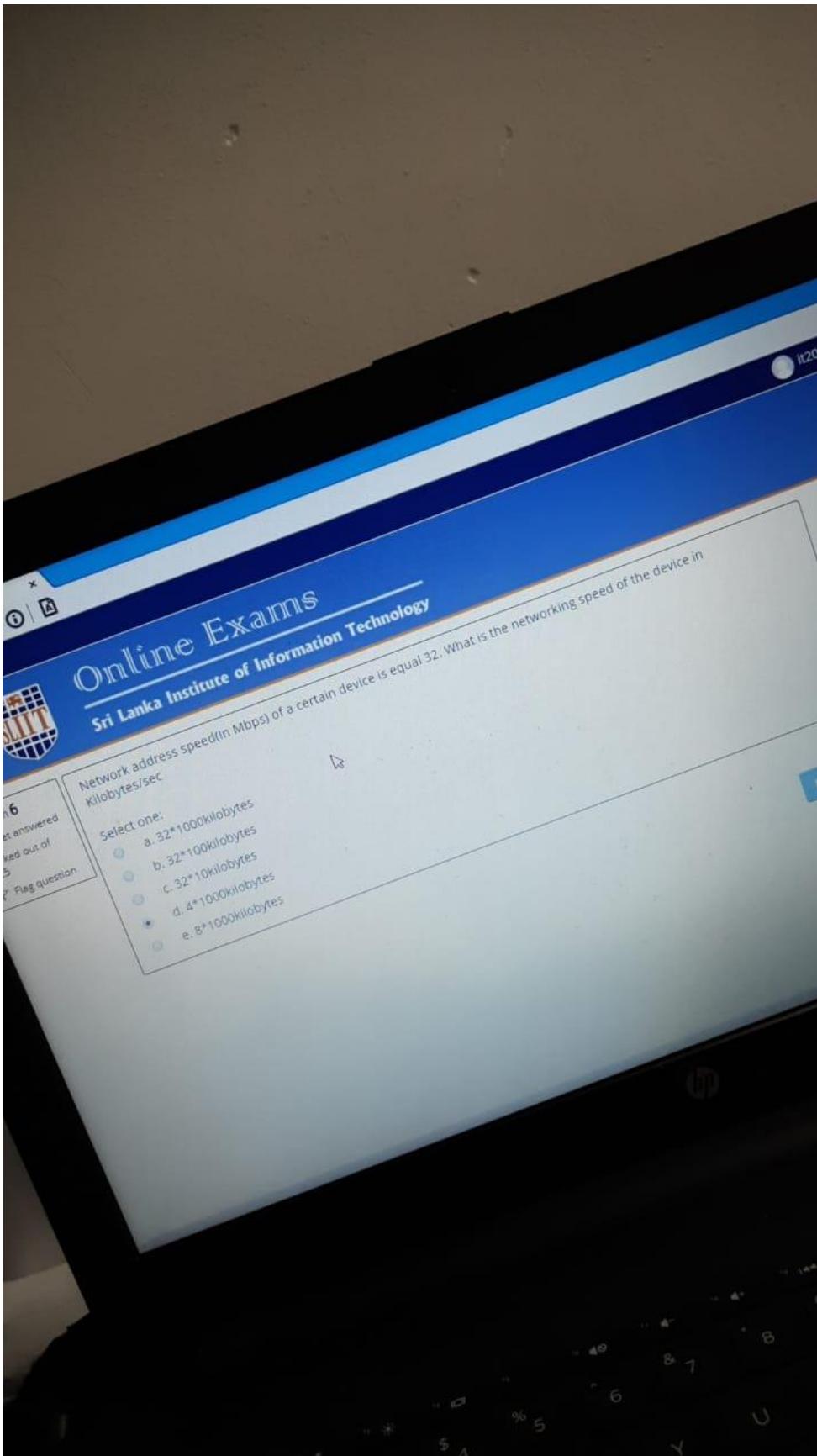
---

## Sri Lanka Institute of Information Technology

Select the correct logic circuit categories

Select one:

- a. Input and output
- b. Comparator circuits
- c. Combinational and sequential
- d. Multiplexer
- e. Encoder



Moodle

← → X C | ⓘ | A

Sri Lanka Institute of Information Technology

Question 10

Not yet answered

Marked out of  
1.25

Flag question

Steps of an instruction cycle is given below:

- A. Instruction fetch
- B. Data operation
- C. Instruction operation decoding
- D. Data store
- E. Operand fetch

Find the correct order of execution.

Select one:

- a. A, C, B, D, E
- b. D, C, A, B, E
- c. B, A, E, C, D
- d. B, A, C, D, E
- e. A, C, E, B, D

Next page

**Online Exams**

**Sri Lanka Institute of Information Technology**

Select the correct elements/components that make up a network.

Select one:

- Device, Wire, Message, Rules.
- Device, Medium, Message, Protocols.
- Service, Medium, Packet, Rules.
- Device, Medium, Message, Rules.
- Service, Medium, Packet, Protocols.

x

Online Exams

Sri Lanka Institute of Information Technology

What is the BCD value of 481

Select one:

- a. 1101 0000 1
- b. 1111 0000 1
- c. 0001 1100 0001
- d. 0001 1110 0101
- e. 0001 1110 0001

 Online Exams

---

Sri Lanka Institute of Information Technology

Which of the following is not a file extension of a compressed file

Select one:

- a. All are compressed file extensions
- b. .gz
- c. .zip
- d. .pkg
- e. .tar.gz



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Match the ISO-OSI Layer to correct address type used in Network Communications.

Transport Layer

Port Address

Data Link Layer

MAC Address

Network Layer

IP Address



**Question 8**

Not yet answered

Marked out of  
1,00

Flag question

Match the correct port category description to port numbers.

Well-known port numbers

0 to 1023



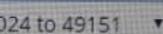
Dynamic/Private port numbers

49152 to 65535



Registered port numbers

1024 to 49151



Online Exams

Sri Lanka Institute of Information Technology

Select the correct statements about network characteristics. (Select two)

Select one or more:

- Reliability indicates the non-dependability of the components that make up the network.
- The logical topology is the arrangement of cables, network devices, and end systems.
- Availability is a measure of the probability that the network will be available for use when it is required.
- The data rate is measured by bits per second of a given link in the network.
- Scalability indicates how many nodes are currently on the network.

Next page

1 2 3 4 5 6 7 8 9 0 Q W E R T Y U I O P F G H J K L



## Online Exams

Sri Lanka Institute of Information Technology

Which of the following statements is correct?

Select one:

- a. A failure in Network layer crashes the application
- b. A failure in Network layer affects entire communication
- c. A failure in Network layer affects Data Link layer
- d. A failure in Network layer stops the device from working entirely
- e. A failure in Network layer affects transport layer

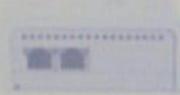




## Online Exams

Sri Lanka Institute of Information Technology

Which of the following statement is true regarding the given figure?



Select one:

- a. These devices are used to build a PAN
- b. These devices are used to connect multiple networks
- c. These devices are used to build a LAN
- d. These devices cannot be used to create a network

# Online Exams

Sri Lanka Institute of Information Technology

Which of the following statement is NOT true?

Select one:

- a. Unguided media are also known as wireless communication
- b. Unguided media uses electromagnetic waves
- c. Unguided media signals are transmitted into air
- d. Fiber optics is an example of Unguided media
- e. Unguided media transmission requires an antenna

Moodle

← → X C | ⓘ | A

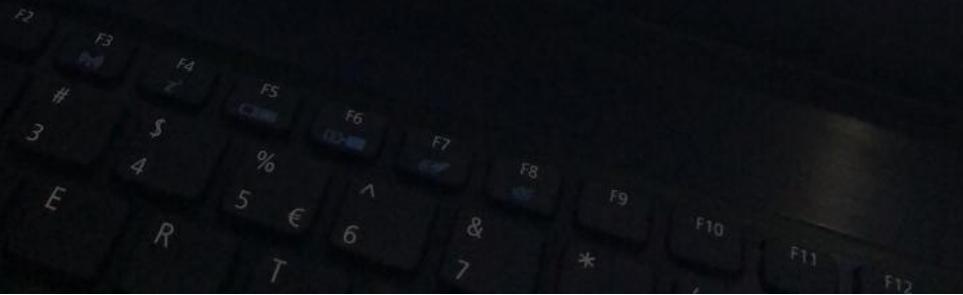
 Online Exams  
Sri Lanka Institute of Information Technology

Question 3  
Not yet answered  
Marked out of 1.00  
Flag question

Which of the following is NOT a correct statement regarding Firewalls?

Select one:

- a. Packet Filtering is a method used in Firewalls
- b. Firewall can provide 100% security to a network
- c. A firewall controls traffic and helps prevent unauthorized access
- d. A Firewall resides between two or more networks
- e. URL Filtering is a method used in Firewalls



**Online Exams**

**Sri Lanka Institute of Information Technology**

A [redacted] can be used to replace Boolean Algebraic method, when simplifying a Boolean expression.

Next page

**SLIIT**

**Online Exams**

**Sri Lanka Institute of Information Technology**

**Question 16**  
yet answered  
Marked out of 0  
Flag question

Select the correct elements/components that make up a network.

Select one:

- Device, Medium, Message, Protocols.
- Service, Medium, Packet, Rules.
- Device, Wire, Message, Rules.
- Service, Medium, Packet, Protocols.
- Device, Medium, Message, Rules.



# Online Exams

Sri Lanka Institute of Information Tech

Answered  
of  
question

Optical fibers operate based on an optical phenomena known as

Select one:

- None of the mentioned is true.
- Total signal reflection.
- Total reflection.
- Total internal reflection.
- Total external reflection

The screenshot shows a web-based online examination system. At the top, there is a blue header bar with the text "Online Exams" and "Sri Lanka Institute of Information Technology". Below the header, there is a question box with the following content:

Select the incorrect statement regarding data

Select one:

- a. Digitization is the process of converting analog data into digital data.
- b. Numeric, alphabetic, special, alpha-numeric are different types of character data.
- c. ASCII is an 7-bit code for 128 different characters.
- d. Data representation refers to the form in which data is stored, processed, and transmitted
- e. One-bit parity is an error correction technique used in data storing and transmission.

Sunil analyzed a real-world problem to design a combinational circuit. He derived following equations by carefully going through the line numbers of truth table.

$$f = \sum (2, 3, 6, 15)$$

$$don't\_care = \sum (5, 7, 11)$$

He needs your support to simplify these equations using a Karnaugh map (K-Map). Please write down the simplified Boolean equation by using English letters A, B, C, D as variables. (write  $\bar{A}B\bar{C}$  as  $A'BC'$ , don't keep spaces between letters)

Answer:

Online Exams

Sri Lanka Institute of Information Technology

swered  
ut of  
Question:

Which of the following is not a file extension of a compressed file

Select one:

- a. .gz
- b. .pkg
- c. .zip
- d. .tar.gz
- e. All are compressed file extensions





## Online Exams

Sri Lanka Institute of Information Technology

tion 2

yet answered

ted out of

flag question

Which of the following is a primary memory

Select one:

- a. CD
- b. Floppy disk
- c. ROM
- d. SSD
- e. HDD

**Question 4**

Not yet answered

Marked out of  
1.00 Flag question

Match the given addresses to appropriate network addressing term.

255.255.255.0

Class C Subnet Mask ▾

172.16.10.9

IPv4 Address ▾

2001:db8:85a3::8a2e:370:7334

IPv6 Address ▾

34-F3-9A-36-68-BB

MAC Address ▾

255.0.0.0

Class A Subnet Mask ▾

[Next page](#)

Online Exams

Sri Lanka Institute of Information Technology

Select the correct statements about network characteristics. (Select two)

Select one or more:

- Reliability indicates the non-dependability of the components that make up the network.
- The logical topology is the arrangement of cables, network devices, and end systems.
- Availability is a measure of the probability that the network will be available for use when it is required.
- The data rate is measured by bits per second of a given link in the network.
- Scalability indicates how many nodes are currently on the network.

Next page

**Question 3**

Not yet answered  
Marked out of  
1.25

 Flag question

Calculate the number of total number of storage locations available for 8 bits of information

Select one:

- a. 256
- b. 127
- c. 255
- d. 16
- e. 32



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Sri Lanka Institute of Information Technology

**Question 5**

Not yet answered  
Marked out of  
1.25

 Flag question

what stores the date and time in a computer

Select one:

- a. Register
- b. ROM
- c. RAM
- d. CMOS
- e. Cache memory





Question 7

Not yet answered

Marked out of  
1.00

Flag question

Select the correct statement.

Select one:

- A private network is not directly connected to Internet.
- In a private network, it is mandatory to follow Internet standards.
- A private network is a set of interconnected Intranets.
- None of the given answers are true.
- If a network is directly connected to Internet, it will become a part of Internet.

What is the correct decimal representation of the following IPv4 address?

11000000.10101000.00001010.00001011

Select one:

- a. 172.11.10.11
- b. 192.168.10.1
- c. 192.128.0.11
- d. 192.148.0.11
- e. 192.168.10.11



Next pa

**Question 8**

Not yet answered

Marked out of  
1.00

Flag question

Match the correct port category description to port numbers.

Well-known port numbers

0 to 1023



Dynamic/Private port numbers

49152 to 65535



Registered port numbers

1024 to 49151



 Online Exams

Sri Lanka Institute of Information Technology

Match the correct port category description to port numbers.

Well-known port numbers	1024 to 49151
Dynamic/Private port numbers	49152 to 65535
Registered port numbers	1024 to 49151



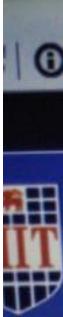
**Online Exams**

Sri Lanka Institute of Information Technology

What does ENIAC stand for?

Select one:

- a. None of the above
- b. Electrical Numerical Integrator And Converter
- c. Electrical Number Integrator And Calculator
- d. Electronic Number Invertor And Calculator
- e. Electronic Numerical Integrator And Calculator

 Online Exams

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Sri Lanka Institute of Information Technology

What is the correct statement about a Broadcast Domain?

Select one:

- A collection of two or more computers in which, when one sender sends a message, it is received by all other computers in the collection.
- None of the mentioned is true.
- A collection of two or more computers in which, when one sender sends a message, it is received by all other computers in the collection.
- A collection of two or more computers in which, when one sender sends a message, it is received by all other computers in the collection.
- A collection of two or more computers in which, when one sender sends a message, it is received by all other computers in the collection.

DK



## Online Exams

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### Sri Lanka Institute of Information Technology

Network address speed(in Mbps) of a certain device is equal 32. What is the networking speed of the device in Kilobytes/sec

Select one:

- a. 8\*1000kilobytes
- b. 32\*1000kilobytes
- c. 32\*100kilobytes
- d. 4\*1000kilobytes
- e. 32\*10kilobytes

# Online Exams

Sri Lanka Institute of Information Technology

Select the correct statements about Dial up connection. (Select two)

Select one or more:

- Digital service.
- Each service is billed separately.
- Provides low speed.
- Doesn't provide a continuous connection. Need to dial up to connect.
- Has a fixed monthly rental.



Which of the following statements describe the network shown in the graphic? (Select two)

Select one or more:

- There are total number of four collision domains in the network.
- There are total number of four broadcast domains in the network.
- There are total number of three broadcast domains in the network.
- There are total number of two broadcast domains in the network.
- There are total number of seven collision domains in the network.
- There are total number of eight collision domains in the network.

Quiz navigation  
DECLARATION  
MCQs  
STRUCTURED  
ESSAY  
Finish attempt...  
Time left 1:53:40

Sri Lanka Institute of Information Technology

Section 3  
yet answered  
marked out of  
Flag question

Which of the following statements describe the network shown in the graphic? (Select two)

Select one or more:

- There are total number of seven collision domains in the network.
- There are total number of six broadcast domains in the network.
- There are total number of four broadcast domains in the network.
- There are total number of two broadcast domains in the network.
- There are total number of four collision domains in the network.
- There are total number of five collision domains in the network.

 Sri Lanka Institute of Information Technology

Question 7  
Not yet answered  
Marked out of 1.00  
 Flag question

What is the correct statement about a Broadcast Domain?

Select one:

- A collection of two or more computers in which, when one sender sends a message, it is received by a group of computers in the same domain.
- A collection of two or more computers in which, when one sender sends a message, it is received by one receiver in the same domain.
- None of the mentioned is true.
- A collection of two or more computers in which, when one sender sends a message, it is received by all the others in the same domain.
- A collection of two or more computers in which, when one sender sends a message, it is received by all the others in a different domains.

Moodle

Online Exams  
Sri Lanka Institute of Information Technology

Question 7  
Not yet answered  
Marked out of 25  
 Flag question

Match the correct Security Term to given Courseweb scenarios.

Lecturers are allowed to delete files in Courseweb but Students Can only view the file.

Using a username and password to login to Courseweb

A log file keeps a record on what time a student submitted a file to Courseweb.



## Online Exams

Sri Lanka Institute of Information Technology

Select the incorrect statement regarding data

Select one:

- a. One-bit parity is an error correction technique used in data storing and transmission.
- b. Numeric, alphabetic, special, alpha-numeric are different types of character data.
- c. Digitization is the process of converting analog data into digital data.
- d. ASCII is an 8-bit code for 128 different characters.
- e. Data representation refers to the form in which data is stored, processed, and transmitted

[Next page](#)



# Online Exam

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## Sri Lanka Institute of Information Technology

Select the correct logic circuit categories

Select one:

- a. Input and output
- b. Comparator circuits
- c. Combinational and sequential
- d. Multiplexer
- e. Encoder

**Online Exams**

**Sri Lanka Institute of Information Technology**

What is the process done by the program called POST which is run by the computer's basic input/output system

Select one:

- a. Check all the hardware and confirm that all are functioning properly
- b. Activating the bootstrap program
- c. Displaying the initial text formation which is displayed on the screen
- d. Displaying the user interface after the control of the computer is taken by the operating system
- e. Starting executions after the Operating system is loaded

SHOT ON REDMI 9  
AI QUAD CAMERA

 Online Exams

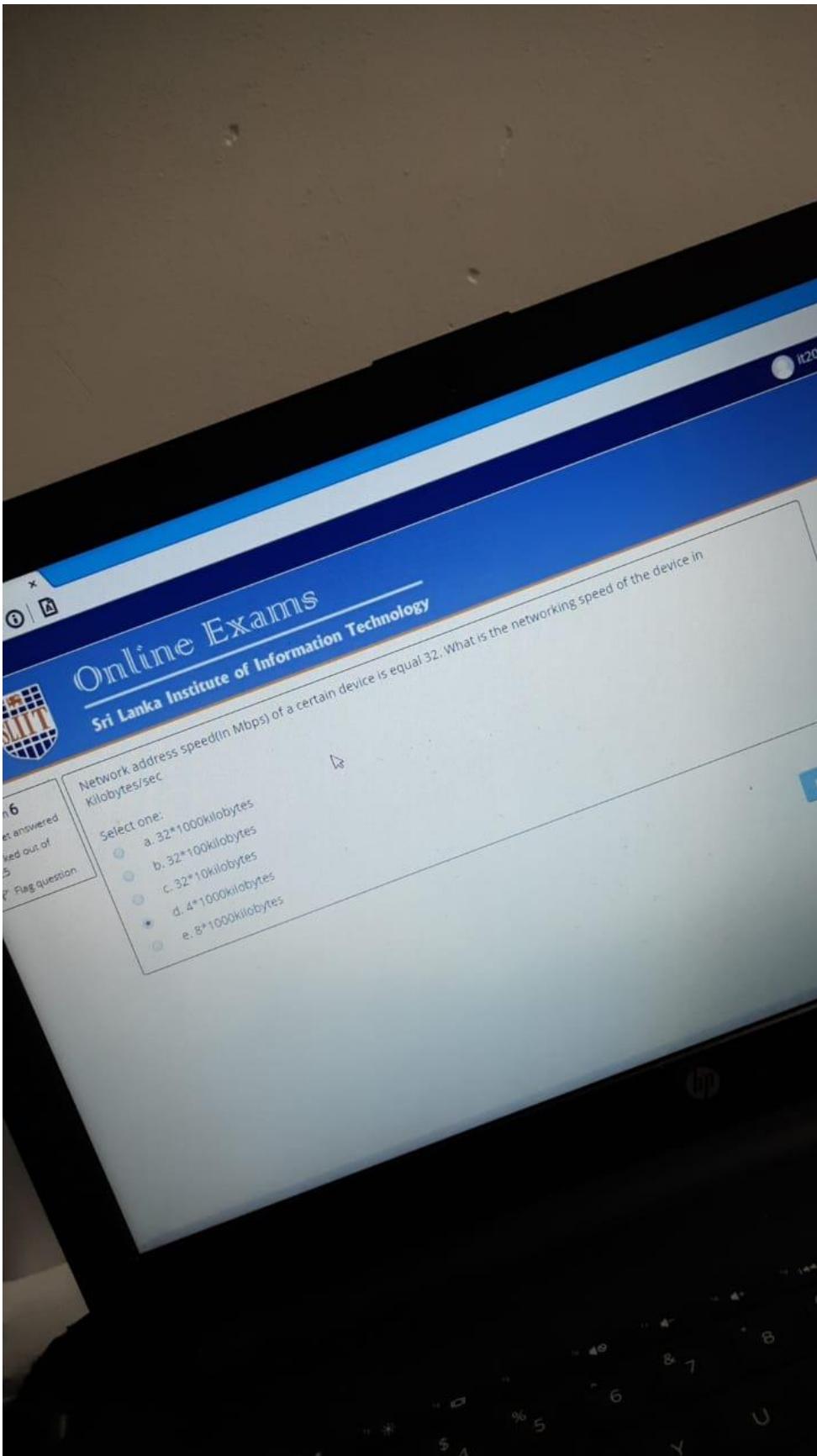
---

Sri Lanka Institute of Information Technology

Which of the following is not a file extension of a compressed file

Select one:

- a. All are compressed file extensions
- b. .gz
- c. .zip
- d. .pkg
- e. .tar.gz





# Online Exams

Sri Lanka Institute of Information Technology

The instruction currently being executed is stored in

Select one:

- a. Instruction register
- b. Program counter
- c. Data register
- d. Accumulator
- e. Instruction pointer



## Online Exams

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Sri Lanka Institute of Information Technology

on 6  
t answered  
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ng question

The only program always runs in the computer is

Select one:

- a. Kernel
- b. Word editor
- c. Database systems
- d. Graphic program
- e. Web browsers



# Online Exams

Sri Lanka Institute of Information Tech

An unauthorized user is a network \_\_\_\_\_ issue.

Select one:

- quality of service
- reliability
- security
- scalability
- availability



## Online Exams

Sri Lanka Institute of Information Technology

**Question 8**

Not yet answered

Marked out of  
1.00

Flag question

Which of the following are NOT real time application scenarios? (Select Two)

Select one or more:

- a. Downloading an email attachment from an Email App
- b. Facebook live video
- c. What's App Call
- d. Downloading a movie using a file sharing application
- e. Skype Video Conference
- f. Zoom live webinar

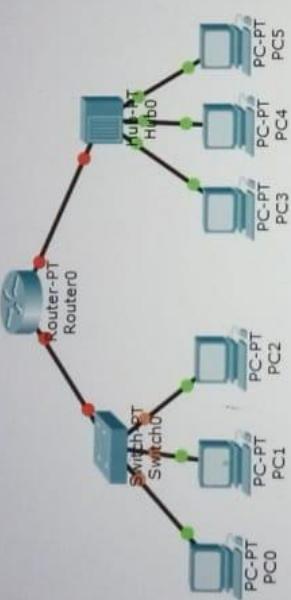
[Next page](#)

**Question 3**

Not yet answered  
Marked out of  
1.00

Flag question

Which of the following statements describe the network shown in the graphic? (Select two)



Select one or more:

- There are total number of two broadcast domains in the network.
- There are total number of five collision domains in the network.
- There are total number of six broadcast domains in the network.
- There are total number of four broadcast domains in the network.
- There are total number of seven collision domains in the network.
- There are total number of four collision domains in the network.

Next pa

 SLIIT  
Sri Lanka Institute of Information Technology

Inputs and outputs can be defined as the main components of a computer. Select the response only with input devices from the following answers

Select one:

- a. Keyboard, Pen-drive, Scanner, Bar code reader
- b. Keyboard, Webcam, Pen-drive, Scanner
- c. Keyboard, Optical pen, CD, Scanner
- d. Keyboard, Optical pen, Scanner, Bar code reader
- e. Keyboard, CD, Optical pen, Bar code reader

Next page



## Online Exams

Sri Lanka Institute of Information Technology

Find the correct statement about sequential circuits

Select one:

- a. 3-to-8 line decoder can be constructed using 2, 2-to-4 line decoders
- b. PLA provides a quick and easy way to implement Boolean functions
- c. Full adder circuit can be made from 2 half-adder circuits
- d. Has a memory to keep past output information to calculate current output
- e. The simplest comparator circuit is an exclusive NOR gate

DELL

Moodle

← → X C | ⓘ | A

Sri Lanka Institute of Information Technology

Question 10

Not yet answered

Marked out of  
1.25

Flag question

Steps of an instruction cycle is given below:

- A. Instruction fetch
- B. Data operation
- C. Instruction operation decoding
- D. Data store
- E. Operand fetch

Find the correct order of execution.

Select one:

- a. A, C, B, D, E
- b. D, C, A, B, E
- c. B, A, E, C, D
- d. B, A, C, D, E
- e. A, C, E, B, D

Next page

Online Exams

Sri Lanka Institute of Information Technology

Question 7

Not yet answered

Marked out of 1.00

Flag question

An unauthorized user is a network \_\_\_\_\_ issue.

Select one:

- security
- reliability
- scalability
- quality of service
- availability





on 8  
et answered  
ed out of  
ag question

Which of the following are NOT real time application scenarios? (Select Two)

Select one or more:

- a. Facebook live video
- b. Downloading an email attachment from an Email App
- c. Skype Video Conference
- d. What's App Call
- e. Downloading a movie using a file sharing application
- f. Zoom live webinar

# Online Exams

Sri Lanka Institute of Information Technology

Select the incorrect statement

Select one:

- a. Compiler workload is low in RISC based machines
- b. SPARC and Power PC are desktop computers that use RISC processors
- c. In RISC processors, more emphasis is given to software
- d. In CISC, more transistors are used for storing complex instructions
- e. RISC normally has low cycles per second, large code sizes



tion 8

yet answered

Marked out of

5

Flag question

What is the BCD value of 481

Select one:

- a. 1111 0000 1
- b. 0001 1110 0101
- c. 0001 1110 0001
- d. 0001 1100 0001
- e. 1101 0000 1



QUESTION



## Online Exams

Sri Lanka Institute of Information Technology

Question 9

Not yet answered

Marked out of

1.25

Flag question

Inputs and outputs can be defined as the main components of a computer. Select the response only with input devices from the following answers

Select one:

- a. Keyboard, Pen-drive, Scanner, Bar code reader
- b. Keyboard, CD, Optical pen, Bar code reader
- c. Keyboard, Optical pen, CD, Scanner
- d. Keyboard, Optical pen, Scanner, Bar code reader
- e. Keyboard, Webcam, Pen-drive, Scanner

Next page

The screenshot shows a web-based online exam system. At the top, there is a blue header bar with the text "Online Exams" and "Sri Lanka Institute of Information Technology". Below the header, there is a white content area containing a matching exercise. The exercise is titled "Match the description with the appropriate ISO-OSI Layer". It consists of four rows, each with a description on the left and a dropdown menu on the right. The descriptions are:

- Provide reliable process to process message delivery
- Translate, Encrypt & Compress Data
- Organizes bits into frames which helps hop-to-hop delivery
- Allows users to access network resources

The corresponding dropdown menus show the following assignments:

- Transport Layer
- Presentation Layer
- Data Link Layer
- Application Layer

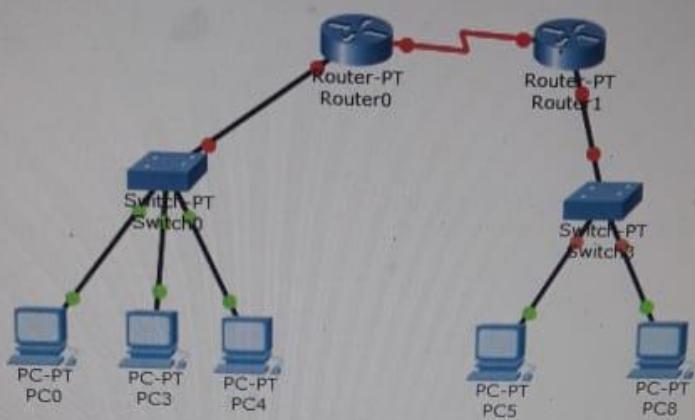
The screenshot shows a web-based online examination system. At the top, there is a blue header bar with the text "Online Exams" and "Sri Lanka Institute of Information Technology". Below the header, there is a question card with a white background. The question asks: "What is the meaning of "Broadcasting" in Networking?". Below the question, there is a list of five options, each preceded by a radio button. The options are: "Addressing a packet to group of machines.", "Addressing a packet to all machines.", "Addressing a packet to a particular machine.", "Addressing a packet to all except a particular machine.", and "None of the mentioned is correct.".

What is the meaning of "Broadcasting" in Networking?

Select one:

- Addressing a packet to group of machines.
- Addressing a packet to all machines.
- Addressing a packet to a particular machine.
- Addressing a packet to all except a particular machine.
- None of the mentioned is correct.

Which of the following statements describe the network shown in the graphic? (Select all that apply)



Select one or more:

- There are total number of three broadcast domains in the network.
- There are total number of seven collision domains in the network.
- There are total number of two broadcast domains in the network.
- There are total number of four collision domains in the network.
- There are total number of eight collision domains in the network.
- There are total number of four broadcast domains in the network.



## Online Exams

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### Sri Lanka Institute of Information Technology

it2066

The CPU is engaged in executing a certain program, let it be program1. While it is getting executed, another program (program 2) needs to be executed. Where does that program is stored just before sending an interrupt request by the device controller?

Select one:

- a. Hard disk
- b. Main memory
- c. Cache memory
- d. Registers
- e. Local buffers

☰ Qu

1

DECLAR

MCOS

2

3

10

11

18

19

Next page

STRUCTURE

24

25

2



## Online Exams

Sri Lanka Institute of Information Technology

Select the incorrect statement regarding data

Select one:

- a. Data representation refers to the form in which data is stored, processed, ar
- b. ASCII is an 7-bit code for 128 different characters.
- c. One-bit parity is an error correction technique used in data storing and trans
- d. Digitization is the process of converting analog data into digital data.
- e. Numeric, alphabetic, special, alpha-numeric are different types of character d

Devices on one network can communicate with devices on another network via. (Select two)

Select one or more:

- Multiplexer
- Hub
- Gateway
- Printer
- Router



# Online Exams

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Development of software for computers was started in

Select one:

- a. 2nd Generation
- b. 5th Generation
- c. 4th Generation
- d. 3rd Generation
- e. 1st Generation

# Online Exams

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Which of the following statements is correct?

Select one:

- a. A failure in Network layer affects entire communication
- b. A failure in Network layer affects transport layer
- c. A failure in Network layer crashes the application
- d. A failure in Network layer stops the device from working entirely
- e. A failure in Network layer affects Data Link layer



# Online Exams

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What is the correct decimal representation of the following IPv4 address?

11000000.10101000.00001010.00001011

Select one:

- a. 192.148.0.11
- b. 172.11.10.11
- c. 192.168.10.11
- d. 192.128.0.11
- e. 192.168.10.1

1

2

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4

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6

A

## Online Exams

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Inputs and outputs can be defined as the main components of a computer. Select the response only with input devices from the following answers

Select one:

- a. Keyboard, CD, Optical pen, Bar code reader
- b. Keyboard, Optical pen, CD, Scanner
- c. Keyboard, Webcam, Pen-drive, Scanner
- d. Keyboard, Optical pen, Scanner, Bar code reader
- e. Keyboard, Pen-drive, Scanner, Bar code reader

**SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY**

Select the incorrect statement regarding the Dynamic RAM

Select one:

- a. Simpler construction, smaller per bit
- b. Slower than static memory
- c. Bits stored as charges in capacitors
- d. No refreshing needed when powered
- e. Less expensive

**Online Exams**

Sri Lanka Institute of Information Technology

Calculate the number of total number of storage locations available for 8 bits of information

Select one:

- a. 16
- b. 32
- c. 127
- d. 256
- e. 255



## Online Exams

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**Question 12**

Not yet answered

Marked out of  
1.00

Flag question

Match the correct port category description to port numbers.

Dynamic/Private port numbers

Choose... ▾

Registered port numbers

Choose... ▾

Well-known port numbers

Choose... ▾

Choose... ▾

1024 to 49151

0 to 1023

0 to 65535

49152 to 65535

**Sri Lanka Institute of Information Technology**

Select the statement which is not true.

Select one:

- The internet is defined as a global mesh of interconnected networks.
- The internet architecture standards are defined by Internet Architecture Board.
- The internet is a public network.
- The protocols related to the Internet is defined by IETF and IRTF
- The internet is owned by Internet Society (ISOC).

Sri Lanka Institute of Information Techn

Select the correct logic circuit categories

Select one:

- a. Multiplexer
- b. Input and output
- c. Combinational and sequential
- d. Encoder
- e. Comparator circuits

Sri Lanka Institute of Information Technology

Select the correct statements about network characteristics. (Select two)

Select one or more:

- Availability is a measure of the probability that the network will be available for use when it is required.
- Reliability indicates the non-dependability of the components that make up the network.
- The data rate is measured by bits per second of a given link in the network.
- The logical topology is the arrangement of cables, network devices, and end systems.
- Scalability indicates how many nodes are currently on the network.

Next pa



## Online Exams

Sri Lanka Institute of Information Technology

Select the incorrect statement regarding the Dynamic RAM

Select one:

- a. Less expensive
- b. Simpler construction, smaller per bit
- c. Bits stored as charges in capacitors
- d. Slower than static memory
- e. No refreshing needed when powered

Select the correct elements/components that make up a network.

Select one:

- Service, Medium, Packet, Protocols.
- Device, Medium, Message, Protocols.
- Device, Medium, Message, Rules.
- Device, Wire, Message, Rules.
- Service, Medium, Packet, Rules.

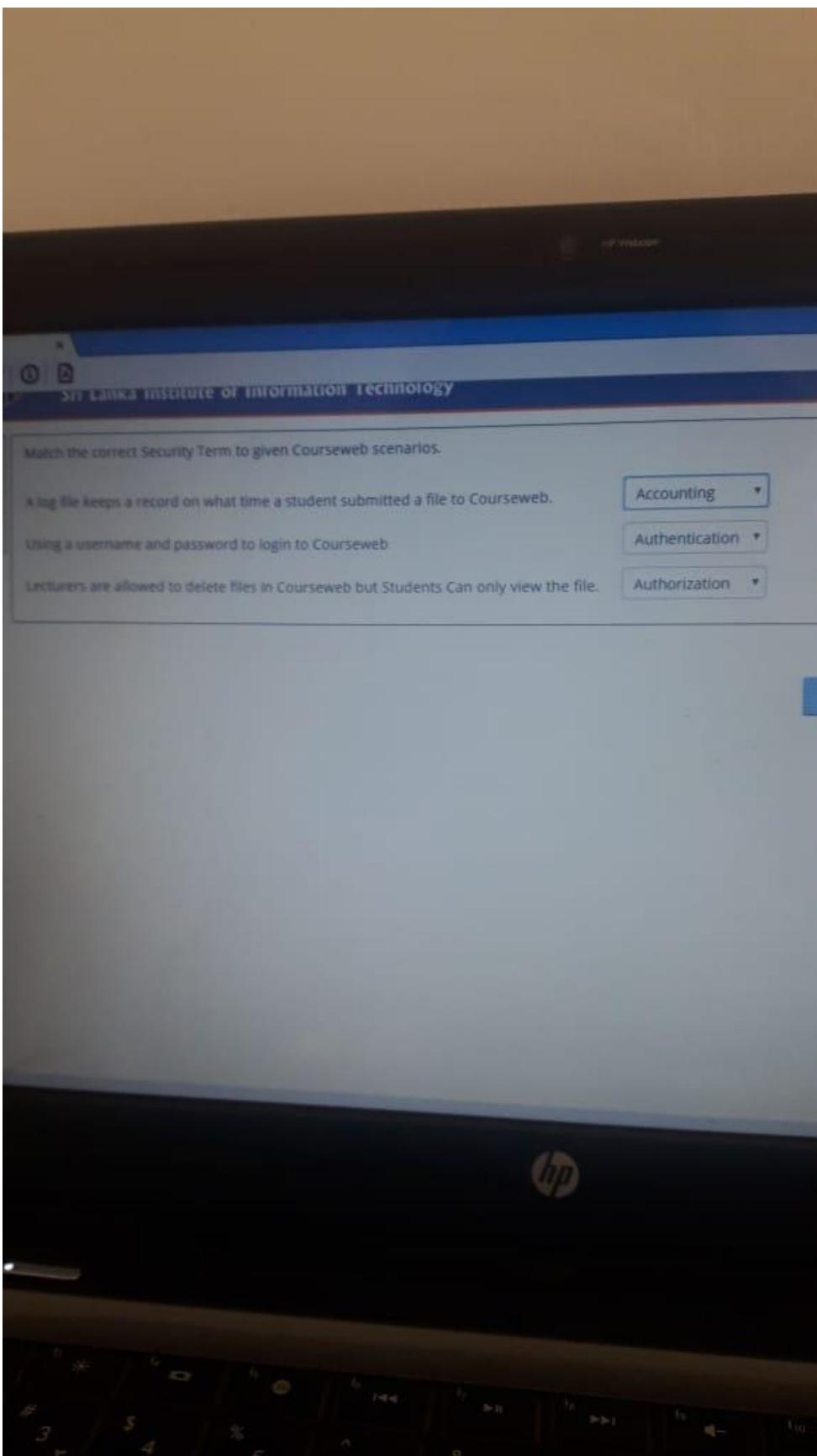


A television broadcast is an example of \_\_\_\_\_ transmission

Select one:

- Full duplex
- Simplex
- Automatic
- Half duplex
- None of the given answers are correct.





 Online Exams

Sri Lanka Institute of Information Technology

Which of the following statement is true?

Select one:

- a. Both IP and MAC addresses are virtual addresses
- b. MAC Address is logical address
- c. IP Address is a physical Address and MAC Address is a logical Address
- d. IP Address is a physical Address
- e. IP Address is a logical Address and MAC Address is a physical Address



Sunil analyzed a real-world problem to design a combinational circuit. He derived following equations by carefully going through the line numbers of truth table.

$$f = \sum (9, 12, 14, 15)$$

$$don't\_care = \sum (4, 11, 13)$$

He needs your support to simplify these equations using a Karnaugh map (K-Map). Please write down the simplified Boolean equation by using English letters A, B, C, D as variables. (write  $\bar{A}B\bar{C}$  as  $A'BC'$ , don't keep spaces between letters)

Answer:

[Finish attempt ...](#)

Moodle

← → X C | O | A

 Online Exams

Sri Lanka Institute of Information Technology

**Question 16**

Not yet answered

Marked out of 1.00

Flag question

Match the given IPv4 Address to the correct Class

130.59.135.4	Class B
210.59.135.4	Class C
10.59.135.4	Class A
227.21.6.173	Class D

→

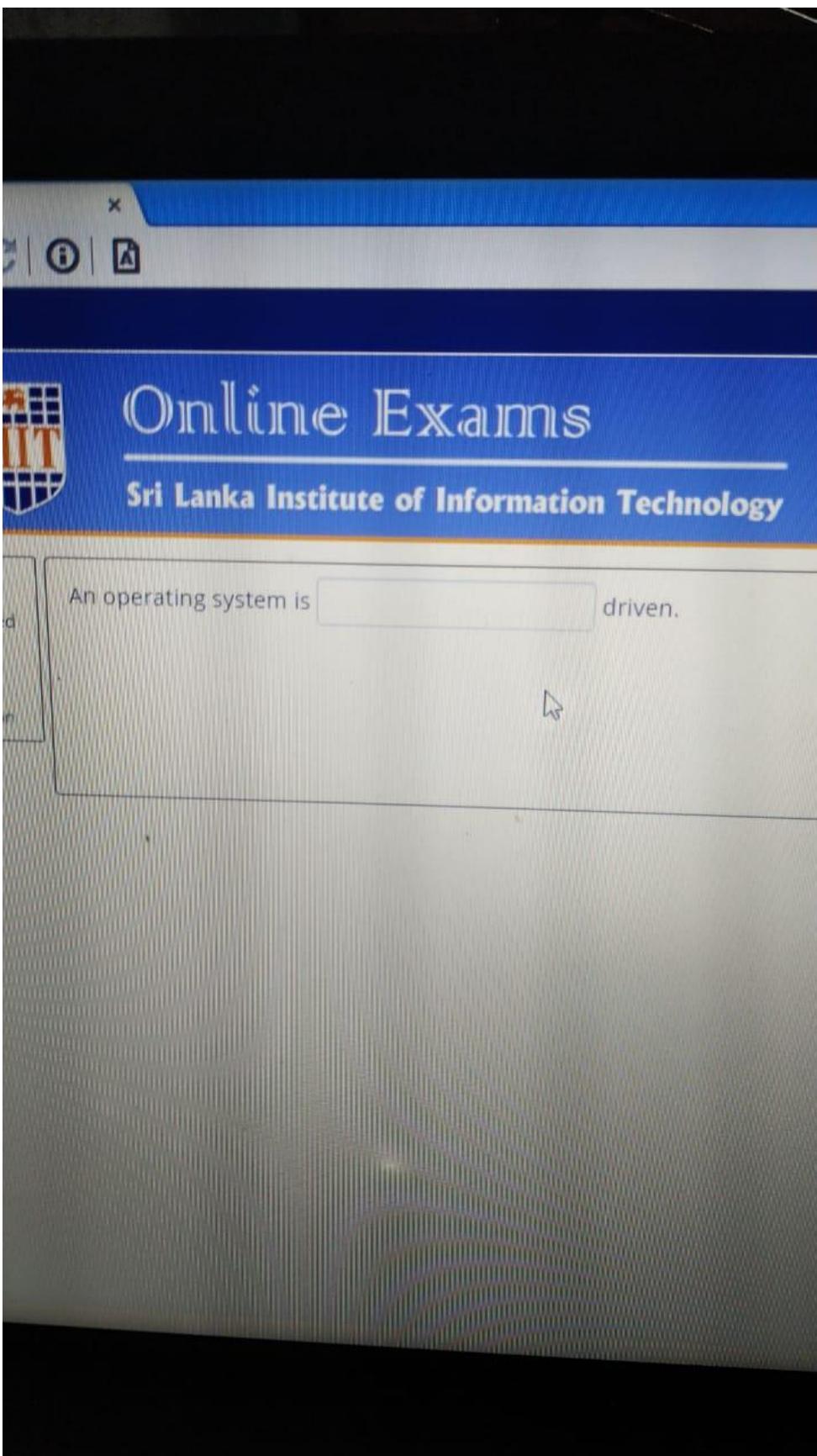
and a real-world problem to design a combinational circuit. Helpfully going through the line numbers of truth table.

$$f = \sum(1, 5, 9, 15)$$

$$\text{don't\_care} = \sum(3, 11, 13)$$

Needs your support to simplify these equations using a Karnaugh map. Simplify Boolean equation by using English letters (e.g.,  $B\bar{C}$  as  $A'BC'$ , don't keep spaces between letters)

Answer: C'D+AD



31  
answered  
1 out of

g question

Sunil analyzed a real-world problem to design a combinational circuit. He derived four equations by carefully going through the line numbers of truth table.

$$f = \sum (2, 3, 6, 15)$$

$$don't\_care = \sum (5, 7, 11)$$

He needs your support to simplify these equations using a Karnaugh map (K-Map). Please write down the simplified Boolean equation by using English letters A, B, C, D as variables. (without  $\bar{A}B\bar{C}$  as  $A'BC'$ , don't keep spaces between letters)

Answer: A'C+CD



# Online Exams

Sri Lanka Institute of Information Technology

ion 24  
et answered  
ed out of  
g question

In the instruction ADD AX, 20H, the answer gets stored in



Question 28

yet answered  
marked out of

Flag question

For the given IP address find the following.

IP address: - 192.168.168.2

- Network address:  .  .  .
- Subnet mask:  .  .  .
- Broadcast address:  .  .  .
- 1<sup>st</sup> usable IP address:  .  .  .
- Last usable IP address:  .  .  .
- IP Address Class:  (Only type the Letter)

C | B | D



Change the following IP address from binary notation to dotted decimal and find the IPv4 Address Class.

Binary Form = 11000000 10101001 00001010 11001011

- IPv4 Address in Decimal:  .  .  .
- IP Address Class:



## Online Exams

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Sri Lanka Institute of Information Technology

Question 22

yet answered  
Marked out of

Flag question

An attacker trying to manipulate individuals into performing actions or divulging confidential information is known as Social Engineering.

Select one:

- True
- False



Next page

Online Exams

Sri Lanka Institute of Information Technology

on 18  
et answered  
ed out of  
g question

What is the BCD value of 481

Select one:

- a. 0001 1110 0101
- b. 0001 1110 0001
- c. 0001 1100 0001
- d. 1101 0000 1
- e. 1111 0000 1



## Online Exams

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Question 30

Not yet answered

Marked out of  
0

Flag question

Complete the missing parts of the binary form of following IPv4 address:

IPv4 Address: 198.168.10.1

- IPv4 Address in Binary:  .  .  .
- How Many Hosts Can be Connected this Network:

[Next page](#)



## Online Exams

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Question 21

Not yet answered

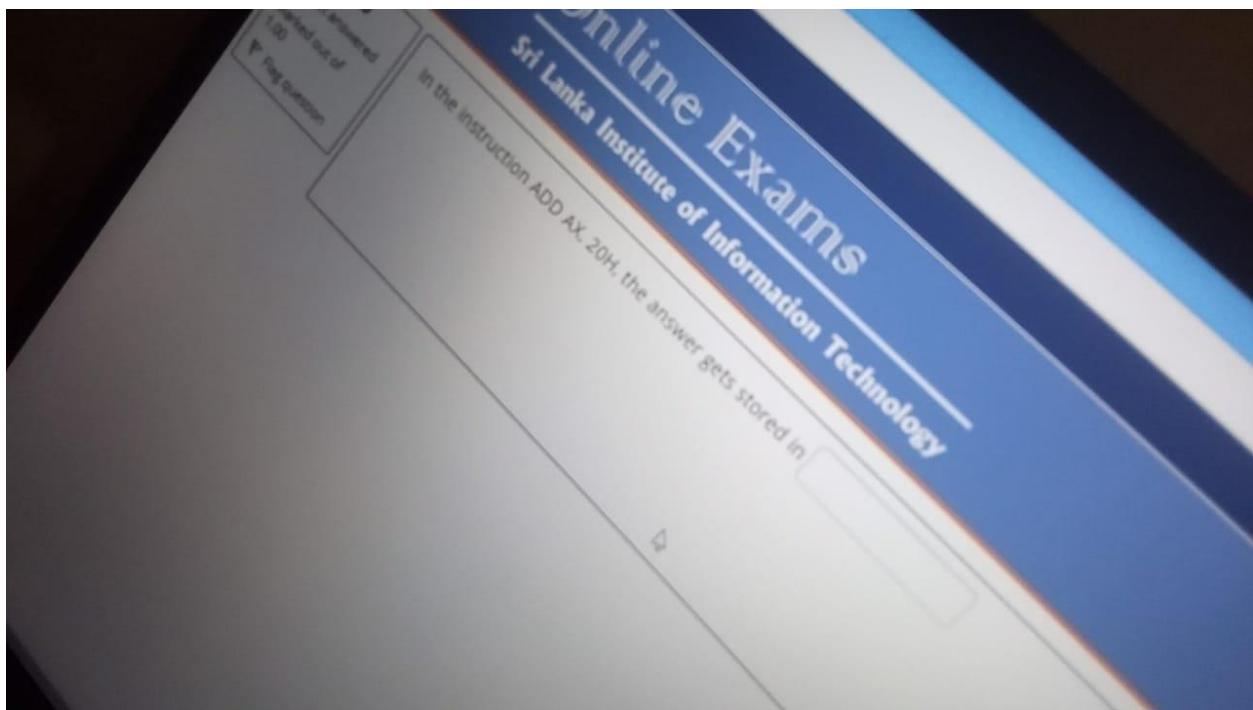
Marked out of  
0

Flag question

A television broadcast is an example of \_\_\_\_\_ transmission

Select one:

- None of the given answers are correct.
- Simplex
- Half duplex
- Full duplex
- Automatic





## Online Exams

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Question 21

Not answered  
1 out of 1  
Flag question

Select the statement which is not true.

Select one:

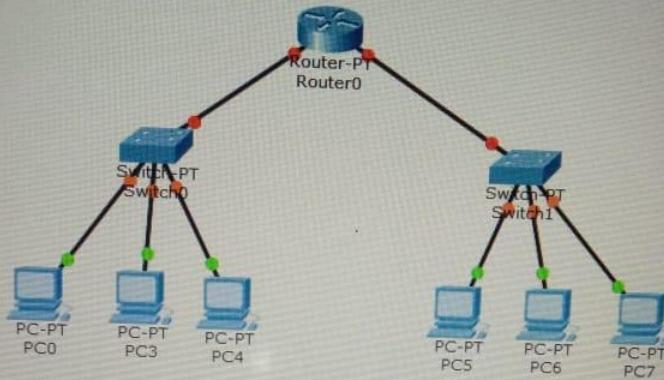
- The Internet is defined as a global mesh of interconnected networks.
- The Internet is owned by Internet Society (ISOC).
- The Internet is a public network.
- The Internet architecture standards are defined by Internet Architecture Board.
- The protocols related to the Internet is defined by IETF and IRTF

**Question 20**

Not yet answered  
Marked out of  
1.00

Flag question

Which of the following statements describe the network shown in the graphic? (Select two)



Select one or more:

- There are total number of eight collision domains in the network.
- There are total number of two broadcast domains in the network.
- There are total number of six broadcast domains in the network.
- There are total number of seven collision domains in the network.
- There are total number of four broadcast domains in the network.
- There are total number of four collision domains in the network.



## Online Exams

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An attacker trying to manipulate individuals into performing actions or divulging confidential information is known as Social Engineering.

Select one:

- True
- False

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4

# Online Exams

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Change the following IP address from binary notation to dotted decimal and find  
Binary Form = 11000000 10101011 00001011 11001010

\* IPv4 Address in Decimal:  .  .  .

\* IP Address Class:

 Online Exams

Sri Lanka Institute of Information Technology

Each device controller has a  to store data temporarily until they sent to CPU or Memory.

[Next page](#)

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stion

Change the following IP address from binary notation to dotted decimal and find the IPv4 Address

Binary Form = 01100111 11100011 11001010 00010011

- IPv4 Address in Decimal:  .  .  .
- IP Address Class:

n 9

answered

1 out of

g question

Which of the following statements are true? (select two).

Select one or more:

- Multi-point connection is always build using a wireless media.
- A multipoint connection is a connection established between more than two devices.
- Point-to-Point connection provides a dedicated link between the two devices.
- Point to point connection is always build using a copper cable.
- Point to point connection is always build using a wireless media.



n 20

answered

0 out of

g question

Select the correct statement.

Select one:

- A private network is not directly connected to Internet.
- In a private network, it is mandatory to follow Internet standards.
- None of the given answers are true.
- If a network is directly connected to Internet, it will become a part of Internet.
- A private network is a set of interconnected Intranets.

**SLIIT**

**Sri Lanka Institute of Information Technology**

20  
Answered  
out of  
question

Select the incorrect statement regarding data

Select one:

- a. Numeric, alphabetic, special, alpha-numeric are different types of character data.
- b. Data representation refers to the form in which data is stored, processed, and transmitted
- c. One-bit parity is an error correction technique used in data storing and transmission.
- d. ASCII is an 7-bit code for 128 different characters.
- e. Digitization is the process of converting analog data into digital data.

**SLIIT**

**Sri Lanka Institute of Information Technology**

Question 18  
Not yet answered  
Marked out of  
1.25  
Flag question

What is the service that usually an OS doesn't execute

Select one:

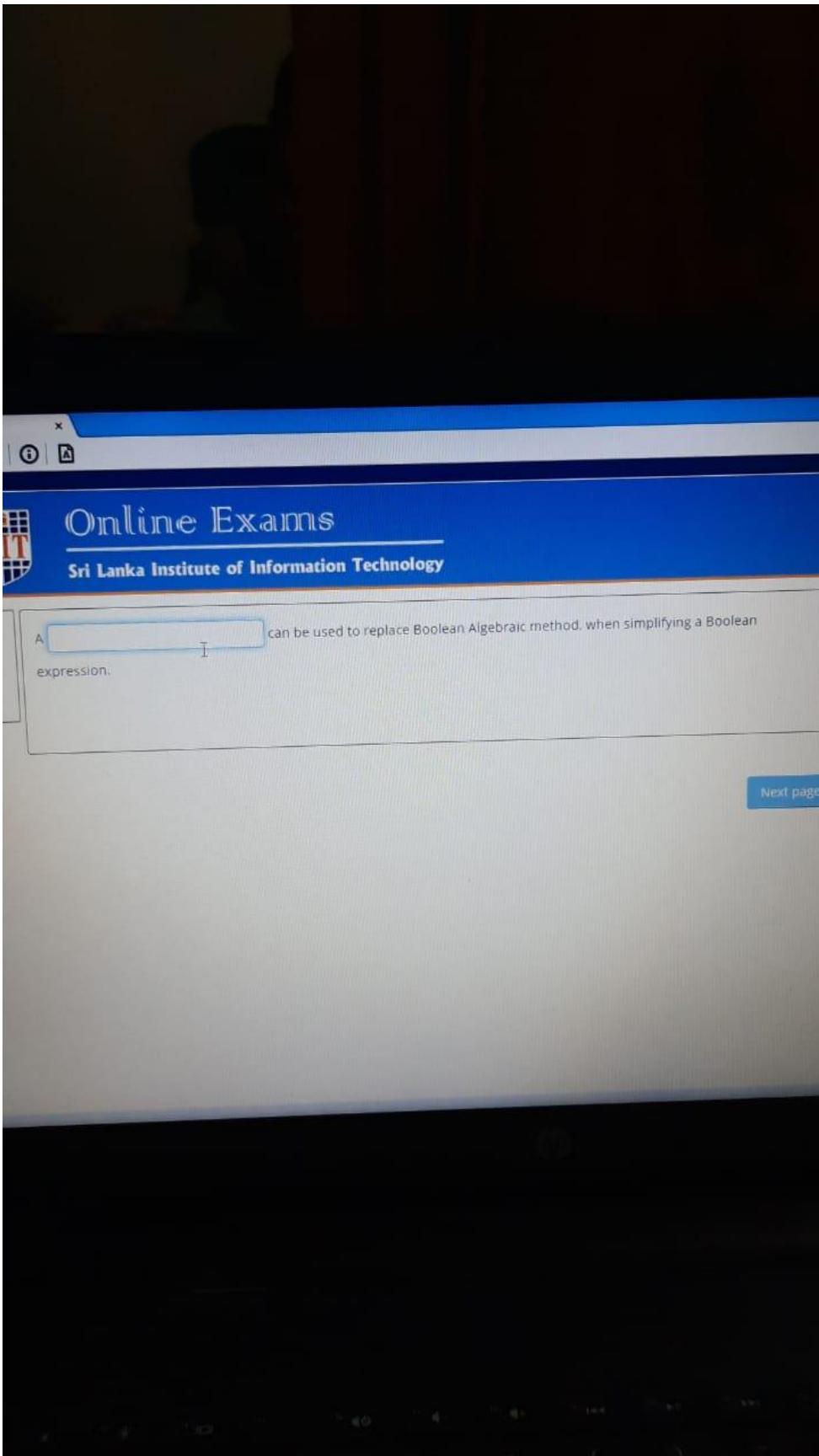
- a. File system management
- b. Storage management
- c. Firmware management
- d. Process management
- e. Security management



## Online Exams

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RISC has instructions that can be executed within  cycle.



# Online Exams

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Select the incorrect statement regarding data.

Select one:

- a. ASCII is an 7-bit code for 128 different characters.
- b. Numeric, alphabetic, special, alpha-numeric are different types of character data.
- c. Digitization is the process of converting analog data into digital data.
- d. Data representation refers to the form in which data is stored, processed, and transmitted
- e. One-bit parity is an error correction technique used in data storing and transmission.

ASUS VivoBook



# Online Exams

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How many unique networks can be created in Class A?

Answer: 126

[ ]