



## Online Exams

Sri Lanka Institute of Information Technology

Question 30

Not yet answered

Marked out of  
3.00

Flag question

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

IPv4 Address: 174.16.10.134

- IPv4 Address in Binary: **10101110** 00010000, 00001010, **10000110**
- IP Address Class: **B**



## Online Exams

Sri Lanka Institute of Information Technology

Question 29

Not yet answered

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2.00

Flag question

What is the subnet mask of the following IP address?

IP address: - 192.168.105.4

Write your answer in dotted decimal format (e.g. 192.168.10.1)

Answer:

**255. 255. 255. 0**

**SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY**

Question 27  
Not yet answered  
Marked out of 5.00  
Flag question

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

Binary Form = 11000000 10101011 00001011 11001010

- IPv4 Address in Decimal: 192.171.11.202
- IP Address Class: C

Next

**SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY**

Question 25  
Not yet answered  
Marked out of 5.00  
Flag question

For the given IP address find the following.

IP address: - 192.168.75.2

- Network address: 192.168.75.0
- Subnet mask: 255.255.255.0
- Broadcast address: 192.168.75.255
- 1<sup>st</sup> usable IP address: 192.168.75.1
- Last usable IP address: 192.168.75.254
- Number Hosts that can be connected to this network: 254

Next page

 Online Exams

Sri Lanka Institute of Information Technology

on 24  
et answered  
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Flag question

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

Next page

 Sri Lanka Institute of Information Technology

1  
swered  
ut of  
question

Which of the following statement is true?

Select one:

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

Next page

**SLIIT** Sri Lanka Institute of Information Technology

Question 20  
Not yet answered  
Marked out of 1.00  
Flag question

Match the correct threat type to the given scenario.

A Denial of Service Attack (DoS) using ping command

A Malware program attached to another program to execute a particular unwanted function on a workstation

Lots of rain causing floods and damaging the data center

Choose... Choose... Network Security Threat Physical Security Threat Application Security Threat

Next page

DECL 1 MCQS 2 STRUCTURE 24 25 ESSAY 31

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

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 fine 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  $\bar{A}BC$  as  $A'BC'$ , don't keep spaces between letters)

Answer: AB+AD

4 4, } 3

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 24 25 26 27 28 29 30 ESSAY 31

Time left: 0:11:42

Question 19  
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 four collision 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 six broadcast domains in the network.
- There are total number of seven collision domains in the network.

Quiz r  
DECLARATI  
1  
MCQS  
2 3  
9 10 11  
16 17 18  
23  
STRUCTURE  
24 25 26  
ESSAY  
31  
Finish attempt...  
Time spent: 0:17:36

SLIIT Online Exams  
Sri Lanka Institute of Information Technology

Question 17  
Not yet answered  
Marked out of 1.25  
 Flag question

Development of software for computers was started in

Select one:

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

Next page



## Online Exams

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Question 16

Not yet answered

Marked out of  
1.00

Flag question

Select the correct statement.

Select one:

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

Next page



## Online Exams

Sri Lanka Institute of Information Technology

Question 13

Not yet answered

Marked out of  
1.25

Flag question

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

Select one:

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

Sri Lanka Institute of Information Technology

Question 1  
Not yet marked  
Marked 1.00  
Flag question

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

C - 8  
B - W

Select one or more:

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

QUESTION NAVIGATION  
MCUS  
STRUCTURED  
ESSAY  
Finish attempt  
Time left 0:20:17



14/06/2022, Dr. Sridharya D.M.N.T (20612632)

## ≡ 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

### ESSAY

31

Finish attempt

Time left 0:20'30

**Question 31**

yet answered

Marked out of

0

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.

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

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

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  $\bar{A}BC$  as  $A'BC'$ , don't keep spaces between letters)

$$A'C + CD //$$

Answer:

Resubmit --



## Online Exams

Sri Lanka Institute of Information Technology

**Question 13**

Not yet answered

Marked out of  
1.25

Flag 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. B; D; E; C; A
- c. A; C; E; B; D
- d. D; E; B; A; C
- e. D; C; B; E; A

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circuits

Esc F1 F2 F3 (PgUp) F4 Z^ F5 □(Bksp) F6 ⌂(Shift) F7 ⌂(Alt) F8 ⌂(Ctrl) F9 F10

~ ! @ # \$ % ^ & \*  
` 1 2 3 4 5 € 6 7 8

Tab ↶

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U

The screenshot shows a web-based online exam system. At the top, there is a blue header bar with icons for refresh, information, and exit. Below the header, the SLIIT logo is displayed next to the text "Online Exams" and "Sri Lanka Institute of Information Technology". The main content area contains a question and five multiple-choice options. The question asks, "How many characters have included in Unicode". The options are: a. 1 million, b. 128, c. 16, d. 65536, and e. 256. Option d. 65536 is highlighted with a blue underline, indicating it is the selected answer. On the left side of the main content area, there is a vertical sidebar with some partially visible text: "wered", "of", and "estion". At the bottom of the screen, there is a dark bar with the text "1080" and a small arrow icon.

Online Exams

Sri Lanka Institute of Information Technology

How many characters have included in Unicode

Select one:

- a. 1 million
- b. 128
- c. 16
- d. 65536
- e. 256

1080 ▶

The screenshot shows a web-based online examination system. At the top, there is a blue header bar with icons for refresh, search, and user profile. Below the header, the title "Online Exams" is displayed next to the logo of the Sri Lanka Institute of Information Technology, which features a stylized "SLIIT" monogram. A horizontal line separates the header from the main content area. The main content area has a light blue background. It contains the question text "Select the correct logic circuit categories" followed by the instruction "Select one:". There is a list of five options, each preceded by a radio button:

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

At the bottom right of the screen, the HP logo is visible.

## Institute of Information Technology

Analyzed a real-world problem to design a combinational circuit. equations by carefully 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 (K-Map). Please write the simplified Boolean equation by using English letters A, B, C, D as variables. (write 'BC', don't keep spaces between letters)

I  $G'D + ADY$

Finish attempt



## Online Exams

Sri Lanka Institute of Information Technology

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  $\bar{A}\bar{B}\bar{C}$  as  $A'BC'$ , don't keep spaces between letters)

Answer:

$$AD + AB$$



Sri Lanka Institute of Information Technology

1  
Answered  
of  
1 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  $\bar{A}\bar{B}\bar{C}$  as  $A'BC'$ , don't keep spaces between letters)

Answer:

$$AD + AB$$

Finish attempt

Online Exams

Sri Lanka Institute of Information Technology

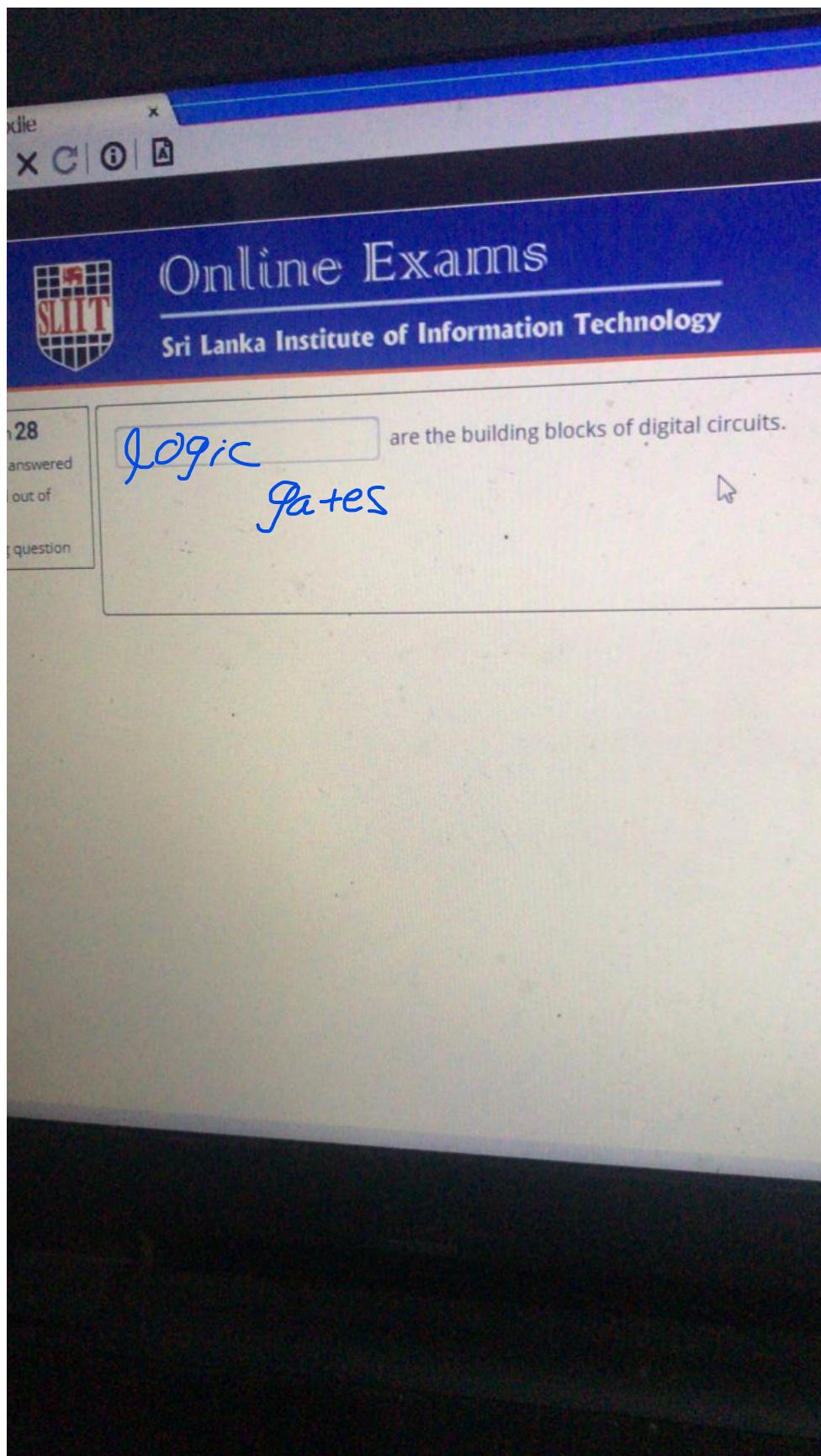
6  
Answered  
of  
Question

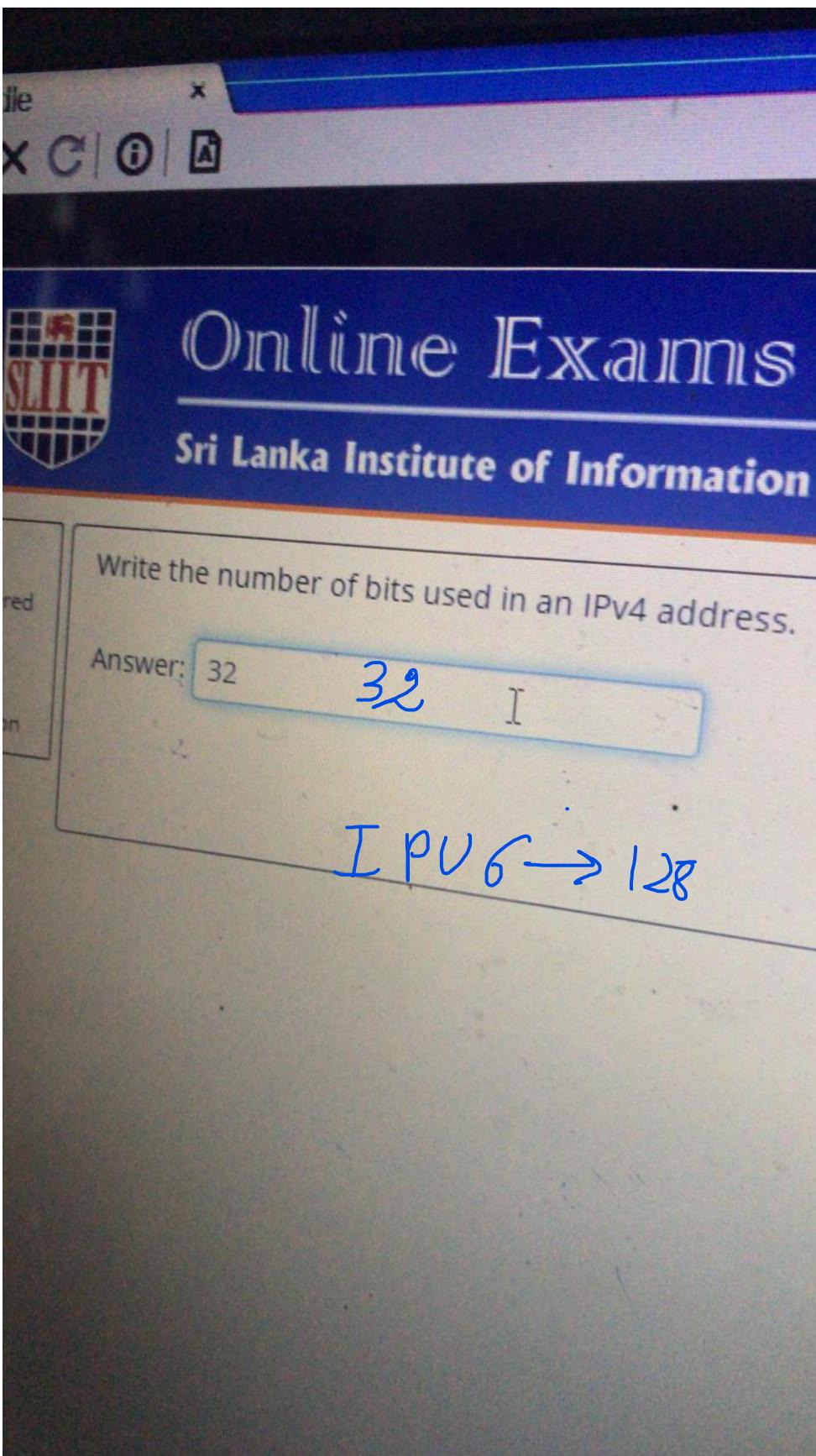
Change the following IP address from binary notation to dotted decimal.

Binary Form = 10101100 00010001 11001001 00001010

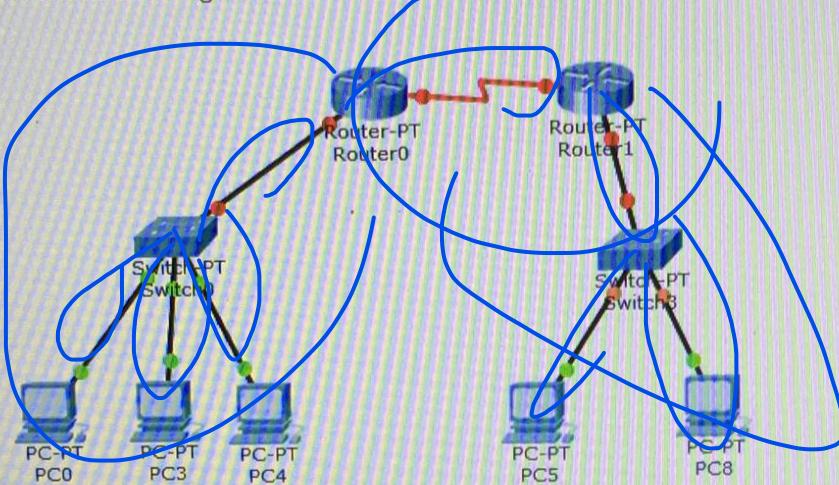
• IPv4 Address in Decimal:  .  .  .

• IP Address Class:  *B*





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

Online Exams

Sri Lanka Institute of Information Technology

Question 9  
Not yet answered  
Marked out of 1.00  
Flag question

Select the incorrect statement.

Select one:

- A network spanning over a geographical area larger than a LAN, but smaller than a WAN, such as a city, is called a MAN.
- Internet is the largest WAN spanning the entire globe.
- X Switches are used to connect LANs to a WAN.
- A WAN spans across a large geographical area. It is a geographically-dispersed collection of LANs.
- A LAN connects network devices over a relatively small geographical area.

Next page

DECLARATION  
1

MCQS  
2 3 4 5 6  
9 10 11 12 13  
16 17 18 19 20  
23

STRUCTURED  
24 25 26 27 28  
YESTERDAY  
31

Sri Lanka Institute of Information Technology

Question 3  
Not yet answered  
Marked out of 1.00  
Flag question

Select the correct statement.

Select one:

- 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 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.

Next page

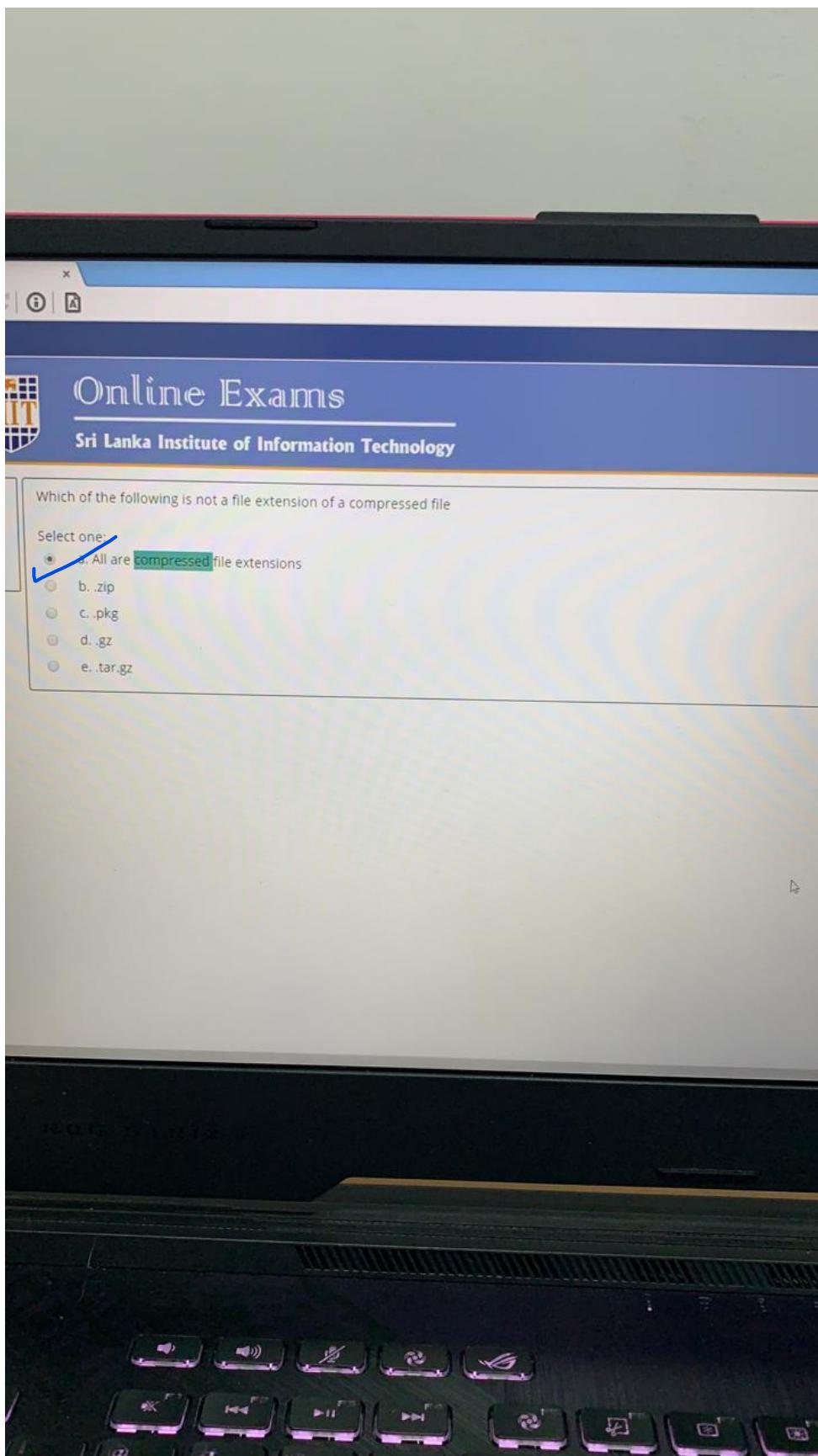
DECLARATION  
1

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  
ESSAY  
31

Finish attempt ...  
Time left 1:54:32

144Hz



# Online Exams

Sri Lanka Institute of Information Technology

Which of the following is not a benefit of the layered networking model?

Select one:

- a. Provides a common language ✓
- b. Allows one organization to control the protocol design ✗
- c. Changes in one layer do not affect other layers ✓
- d. Assists in protocol design ✓
- e. Create a competition between vendors ✓



## Online Exams

Sri Lanka Institute of Information Technology

2

Answer  
of

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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 architecture standards are defined by Internet Architecture Board.
- The protocols related to the Internet is defined by IETF and IRTF
- The Internet is a public network.





## Question 2

Not yet answered

Marked out of  
1.00 Flag question

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

Select one or more:

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

DECLAR

1

MCQS

2

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STRUCTURE

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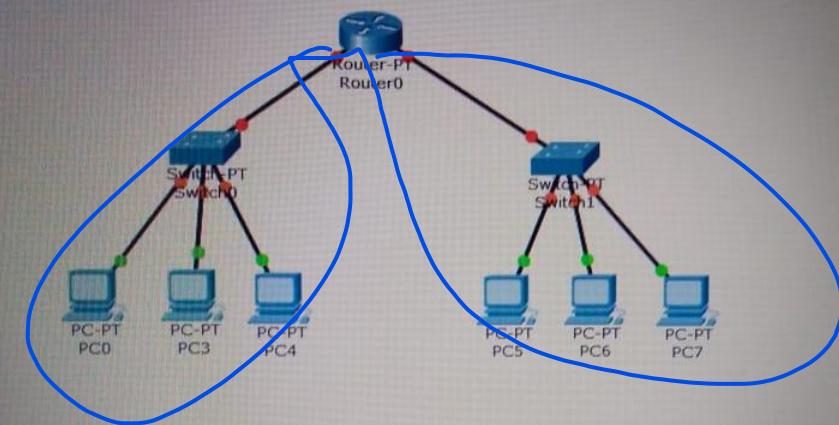
ESSAY

31

 Next page

Question 3  
Not answered  
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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 six broadcast domains in the network.
- There are total number of eight collision domains in the network.
- There are total number of four 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 four broadcast domains in the network.



# Online Exams

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**Question 4**

Not yet answered

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1.25

Flag 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
- B. The truth table is developed
- C. Implemented using logic gates
- D. The problem is analyzed
- E. Identify input variables and output variables

Find the correct order of execution.

Select one:

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



## Online Exams

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Match the correct port category description to port numbers.

Registered port numbers

1024 to 49151



Well-known port numbers

0 to 1023



Dynamic/Private port numbers

49152 to 65535





20

answered  
out of  
question

Which **characteristic** is not addressed by a network architecture design.

Select one:

- Durability
- Fault Tolerance
- Security
- Scalability
- Quality of Service

**Question 13**

Not yet answered

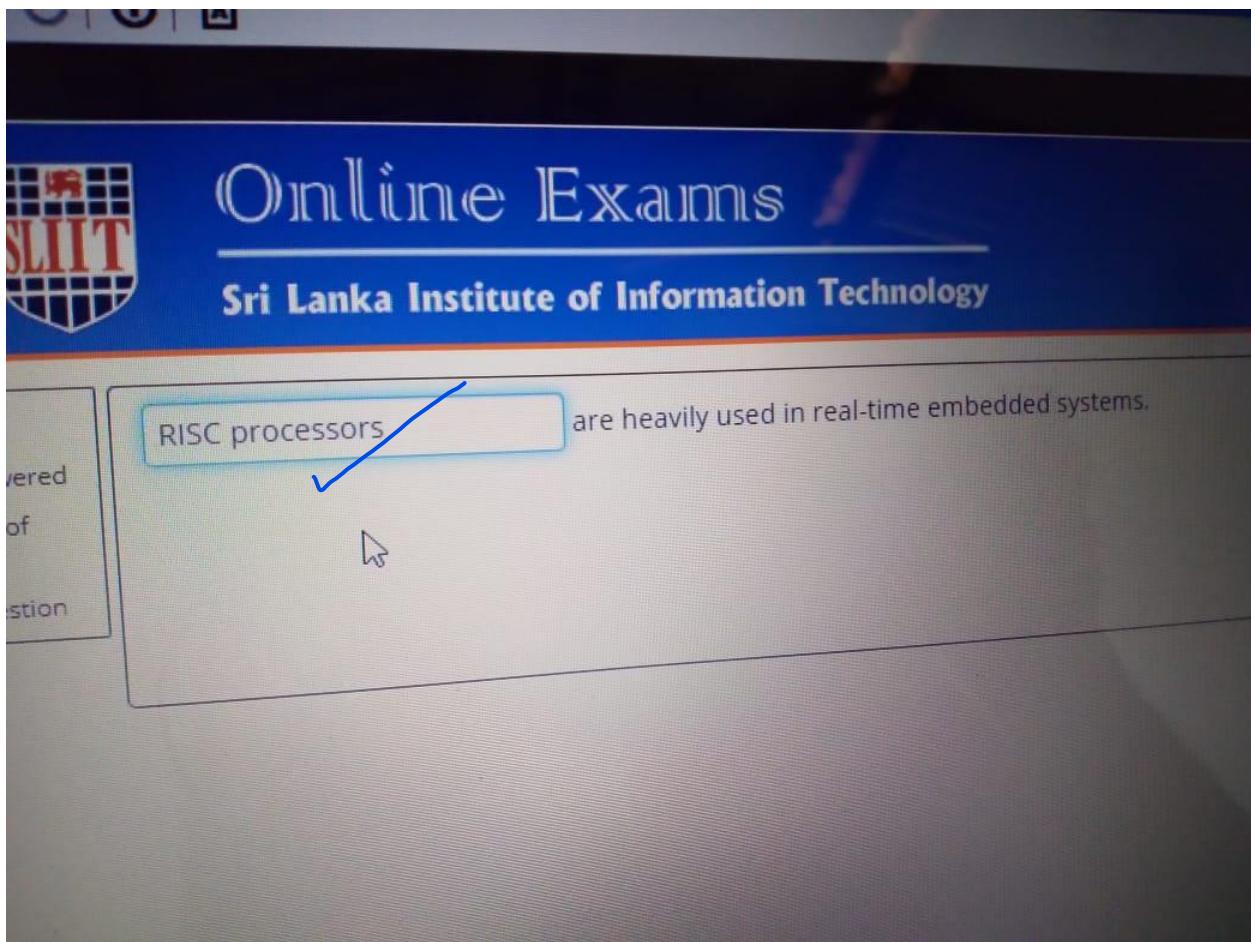
Marked out of  
1.00 Flag question

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

11000000.10101000.00001010.00001011

Select one:

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





# Online Exams

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Answered  
out of  
question

Which is considered as most advanced ROM

Select one:

- a. DRAM
- b. ROM
- c. RAM
- d. EEPROM
- e. PROM





## Online Exams

Sri Lanka Institute of Information Technology

on 6  
answered  
out of  
g question

Which of the following statement is NOT true?

Select one:

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



# Online Exams

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

IPv4 Address: 225.178.11.4

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



12

answered

out of

question

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

Select one:

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