



# Online Exams

Sri Lanka Institute of Information Technology

Question 30

Not yet answered

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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: . 00010000 . 00001010 .
- IP Address Class:



Question 29

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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:

Next

Question 27

Not yet answered

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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:

- IP Address Class:

Next



Question 25

Not yet answered

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Flag question

For the given IP address find the following.

IP address: - 192.168.75.2

- Network address:  .  .  .
- Subnet mask:  .  .  .
- Broadcast address: 192 . 168 . 75 .
- 1<sup>st</sup> usable IP address: 192 . 168 . 75 .
- Last usable IP address: 192 . 168 . 75 .
- Number Hosts that can be connected to this network:



# Online Exams

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shows required input combination for a given change of state.

[Next page](#)





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Which of the following statement is true?

Select one:

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



Next page

Question 20

Not yet answered

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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

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MCQS

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STRUCTURE

24 25

SAY

31



# Online Exams

Sri Lanka Institute of Information Technology



ID20621360 Dasanayaka D.M.D.L.E, ID20621360

**Question 31**

Not yet answered

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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: AB+AD |

Finish attempt...

≡ 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: 01:14:42

**Question 19**

Not yet answered

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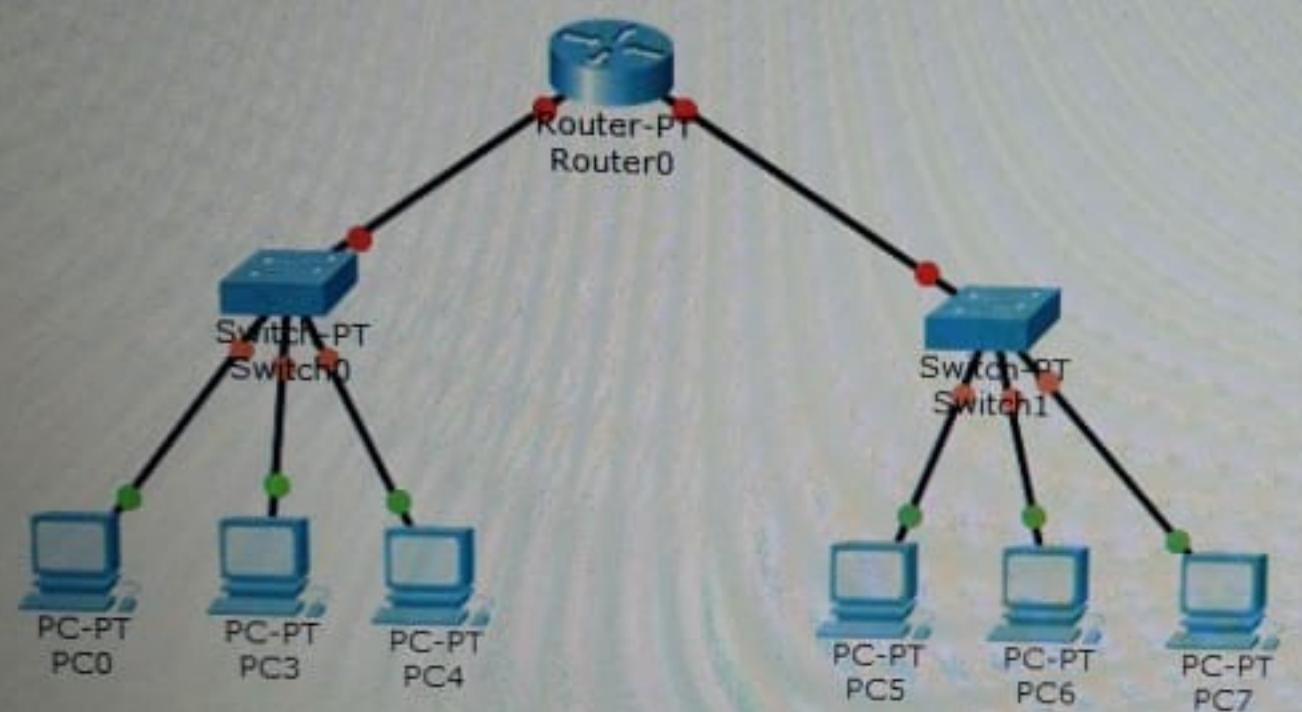
Flag question

**Quiz r****DECLARATION****1****MCQS****2****3****9****10****11****16****17****18****23****STRUCTURED****24****25****26****ESSAY****31**

Finish attempt

Time left: 0:13:25

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.



# Online Exams

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**Question 17**

Not yet answered

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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



Question 16

Not yet answered

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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.
- 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

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**Question 13**

Not yet answered

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1.25

Flag question

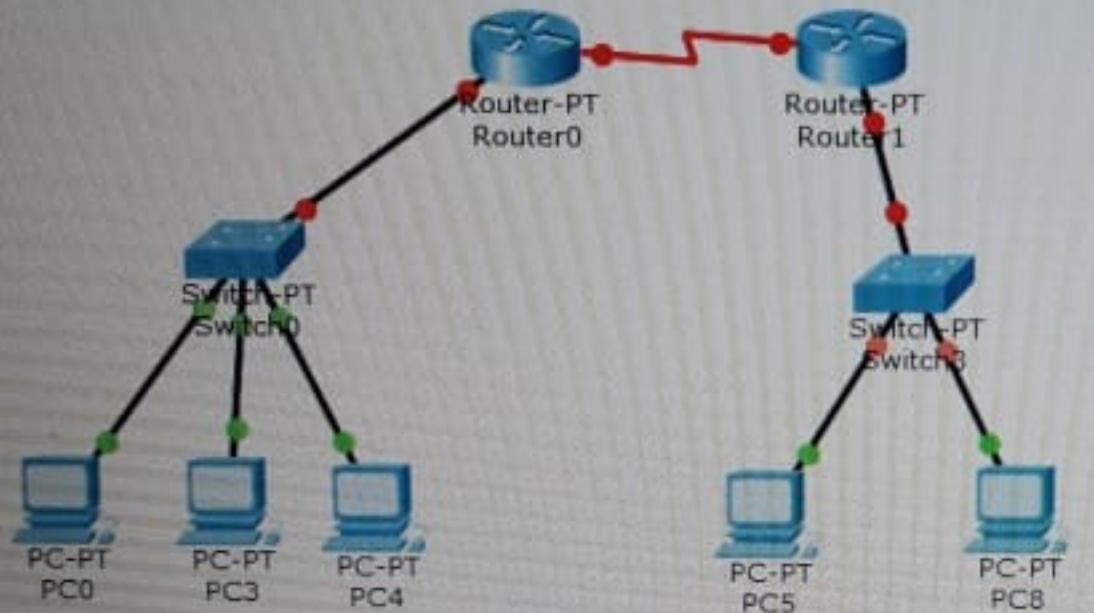
What is the service that usually an OS doesn't execute

Select one:

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

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



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.

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MCQs

2	3	4
9	10	11
16	17	18
23		

STRUCTURED

24	25	26
		2

ESSAY

31

Finish attempt

Time left 0:20:17

## ≡ 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

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Finish attempt

Time left 0:20'30



**Question 31**  
 yet answered  
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≡ Quiz navigation

DECLARATION

1

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

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

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

ANSWER:

Final attempt -

STRUCTURE	QUESTION
24	31
25	32
26	33
27	34
28	35
29	36
30	37
31	38



# Online Exams

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**Question 13**

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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

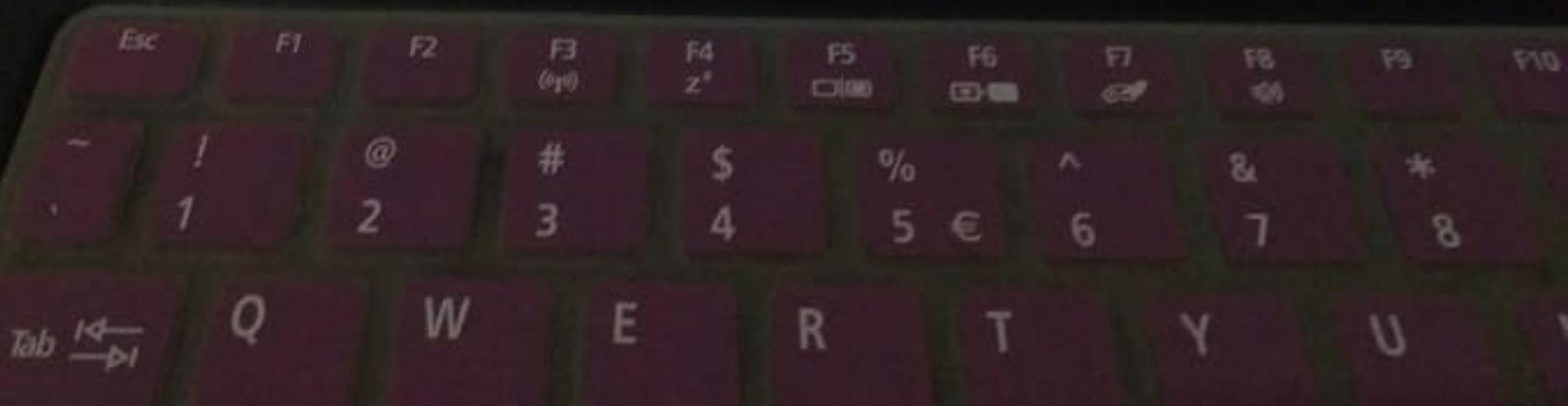
Find the correct order of execution.

Select one:

- a. 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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# Online Exams

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How many characters have included in Unicode

Select one:

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

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# Online Exams

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Select the correct logic circuit categories

Select one:

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



Institute of Information Technology

Analyzed a real-world problem to design a combinational circuit.

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

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

don't care =  
don't\_care =

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)

1

Final attempt



# Online Exams

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Question 31

Not yet answered.

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View 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 ABC as A\*B\*C, don't keep spaces between letters)

Answer:

ANSWER

QUIZ NAVIGATION

ANSWER

ANSWER

1	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	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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**1**  
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  $A'B'C'$ , don't keep spaces between letters)

Answer:

DECLARATION

**1**

≡ Quiz na...

MCQs

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

STRUCTURED

**24****25****26**

Finish attempt

ESSAY

**31**

Finish attempt

Time left 0:36:58



# 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:



## Online Exams

Sri Lanka Institute of Information Technology

28  
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question

are the building blocks of digital circuits.



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# Online Exams

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## Sri Lanka Institute of Information

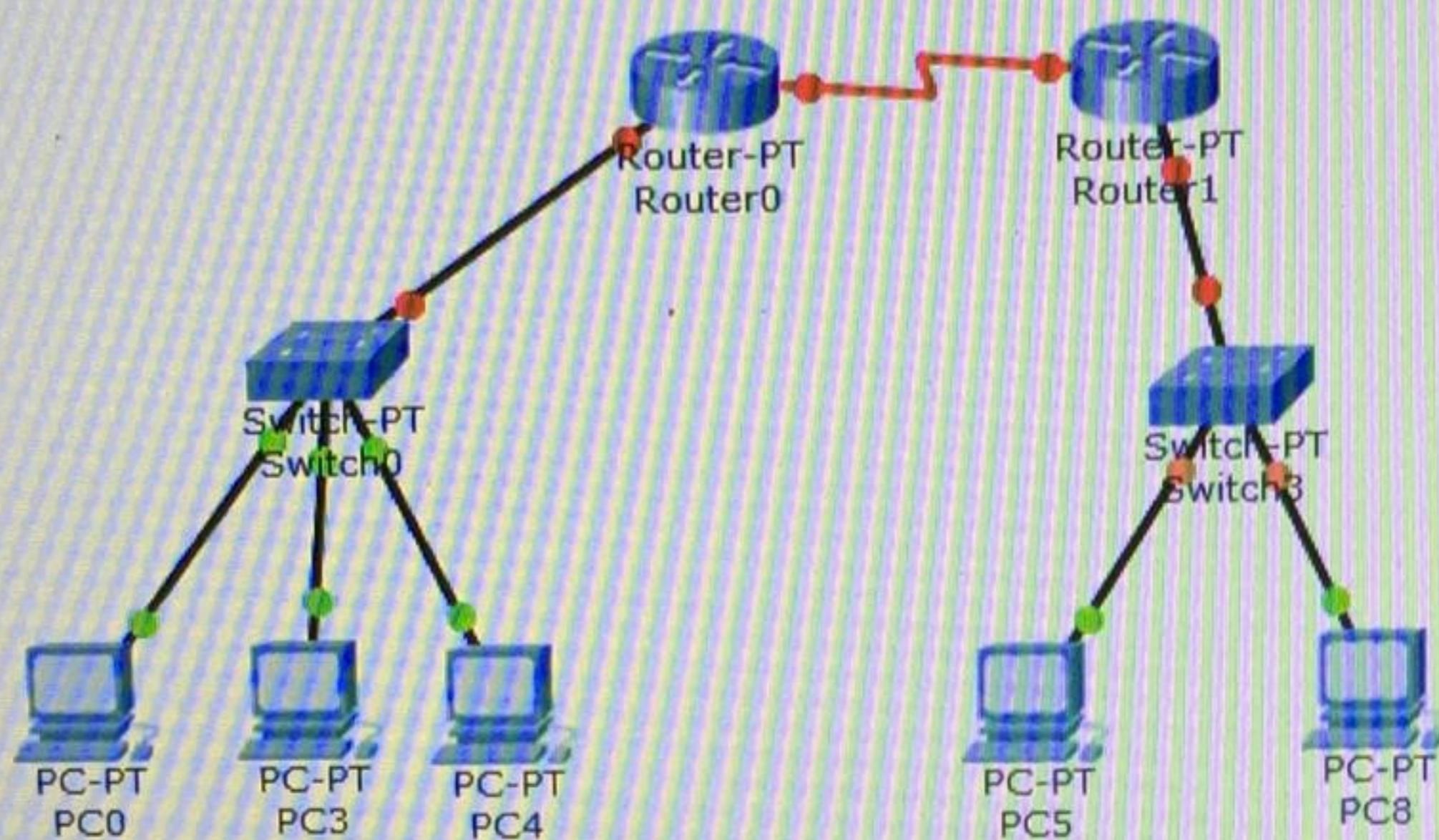
Write the number of bits used in an IPv4 address.

Answer:

32

I

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

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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.
- 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](#)

≡ Quiz navigation

DECLARATION

1

MCQs

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STRUCTURED

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ESSAY

31

**Question 3**

Not yet answered

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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](#)

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
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**ESSAY**

31

Finish attempt ...

Time left 1:54:32

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# 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. .zip
- c. .pkg
- d. .gz
- e. .tar.gz



# 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

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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.





# Online Exams

Sri Lanka Institute of Information Technology

Question 2

Not yet answered

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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.



Next page

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DECLAR...

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MCQS

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STRUCTURE

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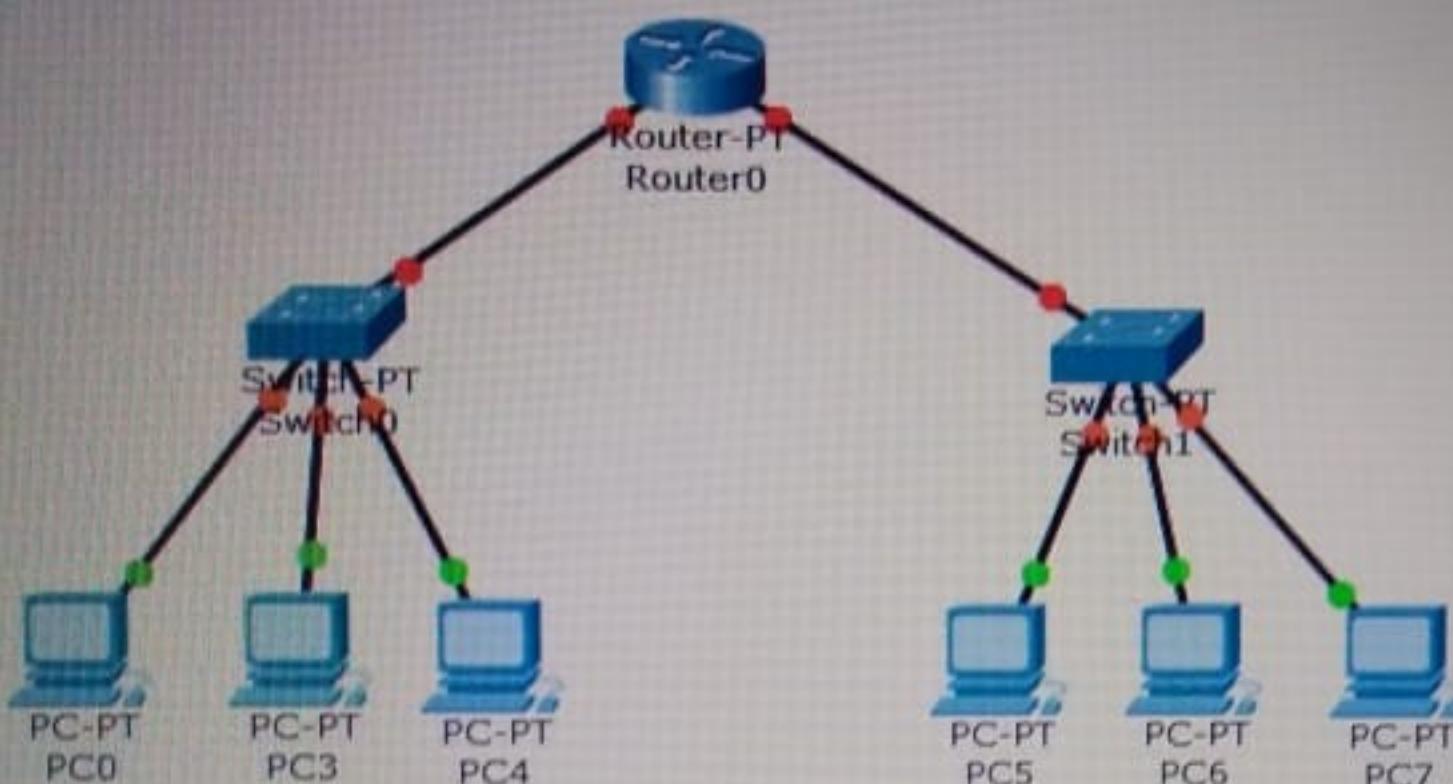
25

ESSAY

31

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ag 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

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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

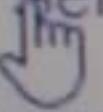
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out of

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

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1.00 Flag question

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

1100000000 . 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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RISC processors

are heavily used in real-time embedded systems.



# Online Exams

Sri Lanka Institute of Information Technology

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

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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



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

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1 out of

g 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.