



Online Exams

Sri Lanka Institute of Information Technology

Question 6

Not yet answered

Marked out of
1.25

Flag question

What is the basic building hardware structure of second generation computers

Select one:

- a. Thermovalves
- b. Transistors
- c. Integrated circuits
- d. Micro processors
- e. Artificial Intelligence



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Question 9

Not yet answered

Marked out of
1.00

Flag question

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

Transport Layer

Network Layer

Data Link Layer



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8
answered
out of
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, Optical pen, CD, Scanner
- b. Keyboard, Optical pen, Scanner, Bar code reader
- c. Keyboard, Pen-drive, Scanner, Bar code reader
- d. Keyboard, Webcam, Pen-drive, Scanner
- e. Keyboard, CD, Optical pen, Bar code reader





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9

answered

out of

question

Match the ISO-OSI Layer to correct address type used in it

Transport Layer

Port Address

Network Layer

IP Address

Data Link Layer

MAC Address



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)



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Question 3

Not yet answered

Marked out of
1.25

Flag question

Which of these computer components are considered input and output devices

Select one:

- a. Touch screen
- b. Key board
- c. Mouse
- d. Speaker
- e. Light pen

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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7
answered
out of
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

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.
- 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.



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Question 17

Not yet answered

Marked out of
1.25

Flag question

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

Which of the following is not an information

Select one:

- a. ICS Marks
- b. Time table
- c. Signing sheet
- d. Bar charts
- e. Prices



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Question 15

Not yet answered

Marked out of
1.00

Flag question

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.

on 3

not answered

out of

g question

Select the correct segment from the following

Select one:

- a. ES
- b. AX
- c. SI
- d. BP
- e. DI

Question 18

Not yet answered

Marked out of
1.00 Flag question**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.
- 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.

Which are the parts of the central processing unit

Select one:

- a. Logic unit, register
- b. Regester, cashe
- c. Logic, cashe
- d. Logic, cashe, regester
- e. Logic, cashe, main memory

Match the given IPv4 Address to the correct Class

10.59.135.4

Choose... ▾

Choose...

Class D

Class A

Class B

Class C

130.59.135.4

Choose... ▾

210.59.135.4

Choose... ▾

227.21.6.173

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

IPv4 Address: 176.129.11.139

- **IPv4 Address in Binary:** . 10000001 . 00001011 .

- **IP Address Class:**

Question 23
Not yet answered
Marked out of
10
[Flag question](#)

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

X

C | ⓘ | ⓘ | ⓘ



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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
- e. Compiler workload is low in RISC based machines

John typed 'ipconfig' command while being connected to his home WiFi and obtained the following results. What is the IP address of the network?

```
IPv4 Address. . . . . : 172.20.2.1<Preferred>
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . : 2001:478:ad3d:1000::1
                           fe80::2e8:4cff:fe68:43d8%3
                           172.20.0.1
                           69570958
DHCPv6 IAID . . . . . : 00-01-00-01-1E-88-87-CE-9C-5C-8E-8F-2F-BE
DHCPv6 Client DUID. . . . . : 2001:478:ad3d:1000::11
DHCP Servers . . . . . : 2001:478:ad3d:1000::12
                           172.20.0.11
                           172.20.0.12
NetBIOS over Tcpip. . . . . : Enabled
Connection-specific DNS Suffix Search List :
                               localdomain.com
```

Answer:



Address (Host or Network) Netmask (i.e. 24) Netmask for sub/supernet (optional)

172.18.10.1 / 24 move to:

Calculate

Help

```
Address: 172.18.10.1          10101100.00010010.00001010 .00000001
Netmask: 255.255.255.0 = 24   11111111.11111111.11111111 .00000000
Wildcard: 0.0.0.255           00000000.00000000.00000000 .11111111
->
Network: 172.18.10.0/24       10101100.00010010.00001010 .00000000 (Class B)
Broadcast: 172.18.10.255      10101100.00010010.00001010 .11111111
HostMin: 172.18.10.1          10101100.00010010.00001010 .00000001
HostMax: 172.18.10.254        10101100.00010010.00001010 .11111110
Hosts/Net: 254                (Private Internet)
```

IP-Calculator

Version 0.35 [2005/07/07]

[Download](#)

[07/27/2006 Security information](#)

[Screenshot \(ipcalc works also at the prompt\)](#)

[CGI wrapper that produced this page.](#)

[Archive](#)



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john typed 'ipconfig' command while being connected to his home WiFi and obtained the following result. How many IPv4 computer/devices can be connected to john's home network?

```
IPv4 Address. . . . . : 172.28.1.1 (Preferred)
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . : 172.28.1.1
          : 00:0C:29:0D:1A:9B
DHCPv4 Lease . . . . . :
DHCPv4 Client ID: . . . . . : 00-0C-0D-01-23-45-67-89-9C-9D-9E-9F-9G-9H
DNS Servers . . . . . : 2001:479:4d24:1:0000:1111
                      : 2001:479:4d24:1:0000:1112
NetBIOS over Tcpip: . . . . . : Enabled
Connection-specific DNS Suffix Search List:
```

Answer:



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Fill the values of x , y and z .

$$\begin{pmatrix} 2 & 1 & 0 \\ 1 & 3 & 1 \\ 0 & 2 & 2 \end{pmatrix} \begin{pmatrix} 2 & 3 & 0 \\ 1 & 1 & 3 \\ 1 & 0 & 0 \end{pmatrix} = \begin{pmatrix} x & 7 & 3 \\ 6 & 6 & y \\ 4 & 2 & z \end{pmatrix}$$

Select one:

- a. $x=8$, $y=9$, $z=6$
- b. $x=5$, $y=2$, $z=6$
- c. $x=5$, $y=8$, $z=10$
- d. $x=5$, $y=9$, $z=6$
- e. $x=5$, $y=9$, $z=9$

**Question 1**Not yet answered
Marked out of
30.00

Flag question

Rewrite the following sentences to make them nondiscriminatory.

1. A professor should correct his students' papers according to a set of predetermined guidelines.
2. When a customer needs service, it is his right to ask for it.
3. Shannon was hoping a doctor would give his opinion.
4. If a customer pays promptly, he is placed in our preferred list.
5. A student, who loses too much sleep, may have trouble focusing during his exams.

1.
I
2.

B. People throughout the world are ignoring the dangers of environmental pollution and of global warming in the hope that science and technology can find solutions. This is not true. We all need to take responsibility for the damage we are causing and must change our life-styles.
Provide your opinion in this regard with appropriate examples.

C. Modern technology has increased our material wealth but has decreased our personal happiness.
To what extent do you agree?

Modern technology has increased our material wealth but has decreases our personal happiness.

We have got lot of achievements because of modern technology. sepeed communication, fast transport services and lot of ways to make our work esier are some of them. when we using modern technology methods we can save lot of time. and also people have gain lot of material wealth. We can apply modern technology for any industry. Now days people have addicted to this modern tecnological life. It has more benifits. but always we cannot use technological methods for our day by day life. Because human imotions and human thoughts cannot be replace by technological methods

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 network?

```
IPv4 Address . . . . . : 172.20.2.1 (Preferred)
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . : 2001:470:ed3d:1000::1
                           fe80::2e8:4cff:fe68:43d8%3
                           172.20.0.1
                           60528958
DHCPv6 IAID . . . . . : 00-01-00-01-1E-88-A9-CE-9C-5C-8E-8F-2F-B6
DHCPv6 Client DUID . . . . . : 00-01-00-01-1E-88-A9-CE-9C-5C-8E-8F-2F-B6
DNS Servers . . . . . : 2001:470:ed3d:1000::11
                           2001:470:ed3d:1000::12
                           172.20.0.11
                           172.20.0.12
NetBIOS over Tcpip. Connection-specific DNS Suffix Search List : luhaesat.com.ang
```

Answer:



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Question 6

Not yet answered

Marked out of

0.00

Flag question

Find $z_1 z_2$ if $z_1 = 3(\cos\pi/6 + i\sin\pi/6)$

$$5(\cos 4\pi/3 + i\sin 4\pi/3)$$

Select one:

- a. $9(\cos 3\pi/2 + i\sin 3\pi/2)$
- b. $9(\cos 3\pi/4 + i\sin 3\pi/4)$
- c. $8(\cos 3\pi/4 + i\sin 3\pi/4)$
- d. $15(\cos 3\pi/2 + i\sin 3\pi/2)$
- e. $15(\cos 3\pi/4 + i\sin 3\pi/4)$



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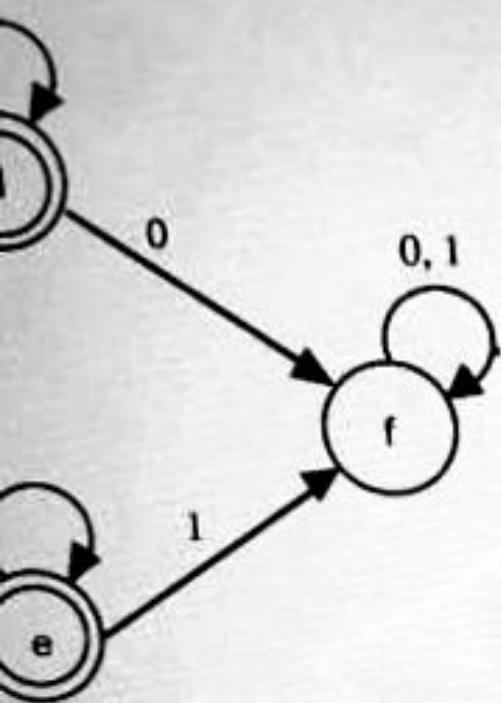
Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(5x - 15)}{2}$$

Find $g^{-1}(5)$

Hint : Find the inverse of g and substitute 5.

Answer:



nce starting from the

- a
- b
- c
- d
- e
- f

≡ Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22						

FEEDBACK SECTION

Finish attempt ...

Time left 0:01:21





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Question 3
Not yet answered
Marked out of
1.00
Flag question

Find $f'(2)$.

$$f(x) = 3/x^4 - 2x^2 + 6x - 7.$$

(Write your answer as a fraction. Eg: 4/5, No spaces in the answer)

Answer: 1

Quiz navigation

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22		

FEEDBACK SECTION

23

Finish attempt ...

Time left 1:43:53

[Next page](#)



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Question 15

Not yet answered

Marked out of
1.00

Flag question

Let $v = \langle 1, 4 \rangle$ and $u = \langle -2, 1 \rangle$. Find the component of v along u .

Select one:

- a. $2\sqrt{5}$
- b. -2
- c. 2
- d. 1
- e. 4

Question 2

Not yet answered

Marked out of
3.00

question

Find the values of the resulting matrix.

$$\begin{bmatrix} 1 & 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 \\ 0 & 0 & 2 & 4 & 2 & 8 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & a & b & c \\ 0 & 1 & 0 & -1 & 1 & 0 \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

a = **b =** **c =** **d =** **e =** **f =**

Find the following definite integral.

$$\int_{1}^{3} |5x - 4| dx$$

(Please remove spaces from the answer)

Answer:

Question 8

Not yet answered

Marked out of
1.00

Flag question

The square roots of $4\sqrt{3} + 4i$

Select one:

- a. $2\sqrt{2}(\cos(\pi/12) + i\sin(\pi/12))$ and $2\sqrt{2}(\cos(13\pi/6) + i\sin(13\pi/6))$
- b. $2\sqrt{2}(\cos(\pi/12) + i\sin(\pi/12))$ and $2\sqrt{2}(\cos(13\pi/12) + i\sin(13\pi/12))$
- c. $2\sqrt{2}(\cos(\pi/6) + i\sin(\pi/6))$ and $2\sqrt{2}(\cos(13\pi/6) + i\sin(13\pi/6))$
- d. $2\sqrt{2}(\cos(\pi/6) + i\sin(\pi/6))$ and $2\sqrt{2}(\cos(13\pi/12) + i\sin(13\pi/12))$
- e. $4\sqrt{2}(\cos(\pi/12) + i\sin(\pi/12))$ and $4\sqrt{2}(\cos(13\pi/12) + i\sin(13\pi/12))$

Question 19

Not yet answered

Marked out of

1.00

Flag question

Consider the following linear system of equations.

$$x + 2y + z = 1$$

$$x + y - z = 0$$

$$2x + 2y + az = 5$$

Find the value of a if the above system of equations have no solution.

Answer:

Let A^{-1} be the inverse matrix of A .

Then AA^{-1} is a

Then $A^{-1}A$ is a

Choose...

Choose...

Diagonal Matrix

Identity Matrix

Symmetric Matrix

Inverse Matrix

Skew-Symmetric Matrix

Transpose Matrix



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Consider the following degree sequence.

6, 5, 4, 3, 2

Is it possible to draw a graph with the above degree sequence?

Choose... ▾

Does this graph have an Euler Path?

Choose... ▾

Does this graph have an Euler circuit?

Choose... ▾

How many edges are in the above graph?

Choose... ▾

Choose... ▾

15

20

Yes

Not Applicable

72

No

10

24

Question 26
Not yet answered
Marked out of
1.00
 Flag question

A _____ strategy is one in which the system time to time runs its own password brute force tools to find weak passwords.

Select one:

- Proactive password checking
- Reactive password checking
- User education
- Computer-generated password

Question 2
Not yet answered
Marked out of
1.00
 Flag question

$$A = 1000111 + 1010111$$

Find the 2's Complement of A.

(No spaces should be there in your answer)

Answer:

Question 3
Not yet answered
Marked out of
1.00
 Flag question

Find $f'(2)$.

$$f(x) = 3/x^4 - 2x^2 + 6x - 7.$$

(Write your answer as a fraction. Eg; 4/5, No spaces in the answer)

Answer:

Question 22

Not yet answered

Marked out of
1.00

 Flag question

In a class, there are 27 boys and 14 girls. The teacher wants to select 1 boy and 1 girl to represent the class for a function.

In how many ways can the teacher make this selection?

(No spaces should be there in the answer)

Answer:

and the values of the resulting matrix.

$$\begin{bmatrix} 1 & 0 & 0 & 1 & 0 & -1 \\ -1 & 1 & 2 & -2 & 1 & 0 \\ 0 & 0 & 1 & 1 & 2 & 1 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & 1 & 0 & -1 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

a = Choose... ▾



b =

-5

c =

-3

d =

6

-2

e =

-1

4

f =

3

5

Question 28

Not yet answered

Marked out of
1.00

Flag question

_____ is malicious software that encrypts the user's data and demands payments to provide key to decrypt user's data.

Select one:

- Polymorphic
- Trojan horse
- Ransomware
- Crimeware



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Question 31

yet answered

marked out of

Flag question

Select security threats specific to remote user authentication.

Select one or more:

- shoulder surfing
- eavesdropping
- brute force
- replay



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Question 23

Not yet answered

Marked out of
1.00

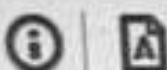
Flag question

A _____ is code available in a malicious software that lies dormant until a predefined condition, which triggers an unauthorized act, is met.

Select one:

- Logic bomb
- Trapdoor
- Trojan horse
- Worm

X



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Consider the following statements about multidimensional array in C Language?

Select the correct statements

- A) It is like a matrix or table with rows and columns.
- B) It is an array of arrays.
- C) It is used only with integers and float numbers.

Select one:

- a. A and C only
- b. A, B and C
- c. A and B only
- d. A only

Which one of the following terms accurately describes the Caesar cipher?

Select one:

- Strong cipher
- Substitution cipher
- Transposition cipher
- Block cipher

on 24

nt answered
ed out of
eg question

Match the descriptions to the relevant terms.

Weakness which can be exploited by an attacker

Choose... ▾

Expected loss due to an attack

Choose... ▾

Use to prevent, detect and recover from attacks

Choose... ▾

Possible danger to an asset

Choose... ▾

≡ Quiz na

Choose...

Choose...

Choose...

Choose...

Choose... 

Choose...

Choose...

Maintenance

Implementation (Plan)

Testing

Design & Development (Plan)

Business/Risk Analysis

Project Initiation

MCQS AND S

1

2

11

12

21

22

31

32

41

42

FEEDBACK (OF

51

Finish attempt ...

Time left 0:09:35



Online Exams

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Question 11

Not yet answered

Marked out of
4.00

Flag question

Following adjacency matrix represents an undirected graph.

$$\begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 2 \\ 1 & 1 & 0 & 3 \\ 1 & 2 & 3 & 1 \end{bmatrix}$$

Find the following.

Number of loops

Choose... ▾



Number of edges

Choose... ▾

Number of vertices

Choose... ▾

Total degree

Choose... ▾

Which of the following c statement print a string stored in a character array called arr and maximum size 'size'?

Select one:

- a. for (i= 0; i < size && arr [i] != '\0'; ++i) printf("%c", arr[i]);
- b. for (i= 0; i < size && arr [i] != '\0'; ++i) printf("%d", i);
- c. for (i= 0; i < size && arr [i] != '\0'; ++i) printf("%c", arr[i]);
- d. for (i= 0; i < size && arr [i] != '\0'; ++i) printf("%d", arr[i]);



Online Exams

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Question 25

Not yet answered

Marked out of
1.00

Flag question

Match the controls to the appropriate control category.

Authentication function of the operating system

- Choose...
- Choose...
- Technical control
- Physical control
- Administrative control

Business continuity plan

- Choose...

Acceptable user policy

- Choose...

Keeping the entrance under lock and key

- Choose...

Security guard

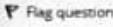
- Choose...

Data loss prevention software

- Choose...

Question 22

Not yet answered

Marked out of
2.00

Science	Music	English	Mathematics
85	67	96	78
94	10	75	80
70	90	81	90
90	85	67	88

This is the content of a text file that stores marks of students in a class (excluding headings).

Each row contains the marks of Science, Music, English and Mathematics of a student.

C program needs to read the marks from the text file and calculate the total marks for each subject. Write the total marks to a separate file.

What is the order of using file handling related inbuilt functions when writing the program?

You can select most suitable answer.

Select one:

- a. fopen(), fclose(), fscanf(), feof(), fscanf(), fopen(), fprintf(), fclose()
- b. fopen(), feof(), fscanf(), fopen(), fprintf(), fclose(), fclose()
- c. fopen(), feof(), fscanf(), fprintf(), fclose()
- d. fopen(), fscanf(), feof(), fscanf(), fopen(), fprintf(), fclose(), fclose()

Quiz navigation**SECTION1**

1	2	3	4	5	6
8	9	10	11	12	13
15	16	17	18	19	20
22	23	24	25	26	27
29	30	31	32	33	34
36	37	38	39	40	

SECTION2

41	42	43
44		

FEEDBACK**44**

Finish attempt ...

Time left 0:54:16



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$$A = 100011 + 10001110$$

Find the 2's Complement of A.

(No spaces should be there in your answer)

Answer:

Next Page

Question 17

Not yet answered

Marked out of
2.00

Flag question

Type	Name	Size	Price	Quantity
P001	Paul	L	1850.00	1
P006	Kim	M	1100.00	2
P002	Anne	M	1200.00	2
P007	Zara	S	850.00	3
P001	Jhon	L	2100.00	2

The above data set needs to write into a data file.

It contains the details of five orders in a pizza shop on a certain day.

The pizza type, customer name, size, unit price and the quantity are the details mentioned here.

After writing these details into a data file, the shop owner needs to read these details to perform some calculations.

Select the correct statement relevant to the scenario.

If the owner is going to use one C program to do all these tasks,

Select one:

- a. There must be three file pointers since there is only one C program.
- b. It's impossible to use one C program to do all these tasks.
- c. There must be two file pointers since there is only one C program.
- d. One file pointer is enough if the owner uses relevant file opening mode.

Question 15

Not yet answered

Marked out of
2.00

Flag question

Which of the following function will return the average value when two integer numbers are given as parameters?**Select one:** a.

```
float calcAvg(int x, int y)
{
    float avg = (x + y) / 2.0;
}
```

 b.

```
float calcAvg(int x, int y)
{
    return (x + y) / 2.0;
}
```

 c.

```
float calcAvg(x, y)
{
    return (x + y) / 2.0;
}
```

 d.

```
void calcAvg(int x, int y)
{
    return (x + y) / 2.0;
}
```



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Match the correct description to different phases in Business Continuity Planning (BCP).

Objectives of the BCP are defined and the scope is identified.

Choose...

Reviewing & constantly updating/improving the BCP.

Choose...

BC team is identified, roles and responsibilities are assigned. Develop a suitable strategy and action plan and plan activation criteria.

Choose...

Calculating Impact & Probability for scenarios. Conduct cost-benefit analysis, strategy selection & establish the budget.

Choose...

Periodically exercise scenarios & produce BC reports & evaluate.

Choose...

Prepare disaster response & recovery procedures. Vendor contracts prepared and recovery resources are purchased. Ensure that recovery team on alert.

Choose...

Next page

Consider the following system of linear equations.

$$x + y + z = 4$$

$$x + y + 4z = 1$$

$$x - y - z = 2$$

Represent the above equations in $A\underline{x} = \underline{b}$ form.

Assume that you solve this using Cramer's Rule.

Then $y = \frac{|A_2|}{|A|}$

Answer for $|A_2|$ •

b

Answer for $|A|$ •

Answer for y •

Marks	Grade
≥ 75	A
≥ 65	B
≥ 45	C
< 45	F

What is the most suitable selection statement to test the marks to decide the grade?

Select one:

- a. other
- b. if
- c. if and switch
- d. switch



Online Exams

Sri Lanka Institute of Information Technology

Question 7

Not yet answered

Marked out of
2.00

Flag question

A character variable can store



Select one:

- a. Only numbers and alphabetical characters
- b. Any character
- c. Alphabetical characters only
- d. Numbers only

on 16
t answered
d out of
g question

How many different permutations can be formed from the letters "GOTABHAYA".

Answer:

[Next page](#)

≡ Quiz navigation

1	2	3	4	5	6
8	9	10	11	12	13
15	16	17	18	19	20
22					

FEEDBACK SECTION

23

[Finish attempt ...](#)

Time left 0:36:13

Online Exams

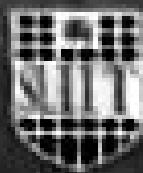
Sri Lanka Institute of Information Technology

In a class, there are 27 boys and 14 girls. The teacher wants to select 1 boy and 1 girl to represent the class for a function.
In how many ways can the teacher make this selection?

(No spaces should be there in the answer)

Answer:





Online Exams

Sri Lanka Institute of Information Technology

Question 20

Time per attempted:

Marking score:
3.00

For help

Find the values of the resulting matrix.

$$\begin{bmatrix} 1 & 0 & -2 & 1 & 0 & -1 \\ 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 3 & 3 & 0 & 6 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & a & b & c \\ 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

a =

Chapter 1
Matrices

b =

-1

c =

4

d =

1

e =

3

f =

6

options to the relevant terms.

h can be exploited by an attacker

Choose... ▾

due to an attack

Choose... ▾

detect and recover from attacks

Choose... ▾

er to an asset

Choose... ▾

Choose... ▾

- Vulnerability
- Controls
- Attack
- Assets
- Risk
- Threat
- Adversary

Question 1
Not yet answered
Marked out of 1.00
 Flag question

Simplify the following boolean expression.

$$ABC + \bar{A} + A\bar{B}C$$

Select one:

- $(\bar{A} + C)$
- $A + \bar{C}$
- $A + C$
- AC
- None of the above

Quiz navigation

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
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

FEEDBACK SECTION



Finish attempt —

Time left 1:58:00

[Next page](#)

← → × C | ① ②

Question 18
1 out of 1 answered
Marked out of 4.00
Flag question

$r_1' = r_2 - 2r_1$

$$\begin{bmatrix} 1 & -1 & 1 & 0 \\ 2 & 1 & 3 & 1 \\ -1 & 2 & 1 & 0 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & -1 & 1 & 0 \\ p & q & r & s \\ a & b & c & d \end{bmatrix}$$

$r_2' = r_3 + r_1$

Find the values of the second matrix, after carrying out the above row operations.

Answer for p :

Answer for q :

Answer for r :

Answer for s :

Answer for a :

Answer for b :

Answer for c :

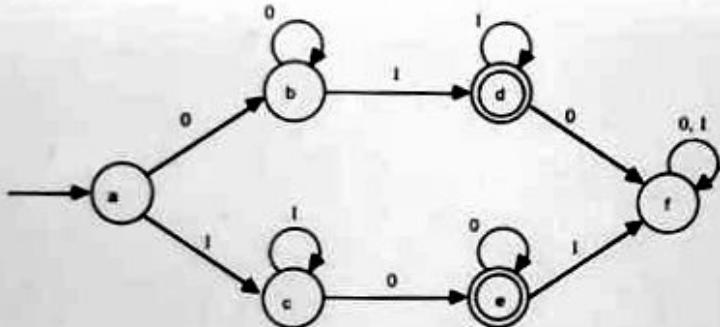
Answer for d :

Quiz navigation

PREVIOUS QUESTION
NEXT QUESTION

Question 22
Not yet answered
Marked out of 4.00
 Request hint

Consider the following finite state Machine A.



What is the initial State?

To what state does A go if 1000111 input to A in sequence starting from the initial state?

Find $N(d, 1)$

Find $N(f, 0)$

a
b
c
d
e
f

Quiz navigation

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24

FEEDBACK SECTION



Finish attempt ...

Time left 00:05:11

Online Exams

Sri Lanka Institute of Information Technology

$$r_2' = r_2 - 3r_1$$

$$\begin{bmatrix} 1 & 0 & 1 & 2 \\ 3 & -1 & 1 & 1 \\ 2 & 1 & -1 & 4 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 0 & 1 & 2 \\ p & q & r & s \\ a & b & c & d \end{bmatrix}$$

$$r_3' = r_3 - 2r_1$$

Find the values of the second matrix, after carrying out the above row operations

Answer for p Choose... •

Answer for q Choose... •

Answer for r Choose... •

Answer for s Choose... •

Answer for a Choose... •

Question 14
Not yet answered
Marked out of
5.00
 Reg question

Assume A is a skew-symmetric Matrix.

$$A = \begin{bmatrix} 0 & -1 & 2 \\ c & a & 3 \\ d & e & b \end{bmatrix}$$

a = *

b = *

c = *

d = *

e = *

b =

Quiz navigation



FEEDBACK SECTION



Final attempt...

Time left 00:00:00

Next page



Online Exams

Sri Lanka Institute of Information Technology

Question 5
Not yet answered
Marked out of
2.00
 Flag question

N Refers to all the positive integers. (Called as Natural Numbers)

$$f: N \rightarrow N \quad f(n) = (x - 2)(x + 3)$$

Is f a One to one function?

Choose... ▾

Is f an onto function?

Choose... ▾

Does f has an inverse function?

Choose... ▾

Quiz navigation

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22		

FEEDBACK SECTION

23

Finish attempt...

Time left 1:33:38

Next page





Online Exams

Sri Lanka Institute of Information Technology

Row-Echelon form of a system of equations with three unknown values is given by

$$\left(\begin{array}{ccc|c} 1 & 2 & 4 & 4 \\ 0 & 1 & -1 & 7 \\ 0 & 0 & 0 & 0 \end{array} \right)$$

This has,

Select one:

- a. Infinitely many solutions
- b. No solutions
- c. Unique solution.
- d. None of the above

Consider the following linear system of equations.

$$x + y + z = 1$$

$$2x + y + 2z = 0$$

$$x + 2y + az = 3$$

Find the value of a if the above system of equations have infinite number of solutions.

Answer:

Question 6
Not yet answered
Marked out of
1.00
 Flag question

Gotabaya, Mahinda, Ranil, Sajith, Rajitha, Wimal, and Basil have won three tickets to the opera. They will randomly choose three people from their group to attend the opera.

How many outcomes are possible?

(No spaces should be there in the answer)

Answer:

[Next page](#)

Quiz navigation

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

FEEDBACK SECTION

20

[Finish attempt](#) ...

Time left 1:28:54



Online Exams

Sri Lanka Institute of Information Technology

11

answered
out of
question

If A, B and C are three matrices find the incorrect statement(s).

- a) $A(BC) = (AB)C$
- b) $(B+C)A = AB+AC$
- c) $A+B = B+A$
- d) $(A+B)(A+C) = AA+AC + BA + AC$

Select one:

- b) only
- b) and d)
- c) and b)
- d) only
- a), b) and d)

Question 4
Not yet answered
Marked out of
1.00
 Flag question

Find the following definite integral.

$$\int_{1}^{3} |5x - 4| dx$$

(Please remove spaces from the answer)

Answer:

[Send answer](#)

Quiz navigation

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

FEEDBACK SECTION



Finish attempt...

Time left 13:46:09



Online Exams

Sri Lanka Institute of Information Tech

Question 7

Not yet answered

Marked out of
1.00

Flag question

Find $|z|$ if $z = 3 + 4i$

Select one:

- a. 2
- b. 5
- c. 3
- d. 4
- e. 1



B

I



3.The patient was hoping a doctor would give the doctor's opinion.

4.If customers pay promptly, they are placed in our preferred list.

5.Students who lose too much sleep, may have trouble focusing during their exams.

{

1. Find the value of x if,

$$\begin{vmatrix} 2 & -1 & 2 \\ 4 & x & 3 \\ -6 & 3 & 1 \end{vmatrix} = 0$$



Select one:

- a. $x=1$
- b. $x=-1$
- c. $x=-2$
- d. $x=2$
- e. $x=5$

4. If a customer pays promptly, he is placed in our preferred list.

5. A student, who loses too much sleep, may have trouble focusing during his exams.



1 Professors should correct their students' papers according to a set of predetermined guidelines.

2. When a customer needs service, it is the right to ask for it.

3. The patient was hoping a doctor would give the doctor's opinion.

I

4. If customers pay promptly, they are placed in our preferred list.



Online Exams

St. Louis Institute of Information Technology

Question 21

Not yet answered

Marked out of
1.00

Flag question

Program is a where process is an active entity.

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	0
0	0	1	1	0
0	1	0	0	1
0	1	0	1	X
0	1	1	0	X
0	1	1	1	1

A	B	C	D	f
1	0	0	0	0
1	0	0	1	0
1	0	1	0	0
1	0	1	1	0
1	1	0	0	X
1	1	0	1	0
1	1	1	0	1
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 $\bar{A}B\bar{C}$ as $A'BC'$, don't keep spaces between letters).

Answer:

Arrange the following business letter in the appropriate order by numbering the components from 1 -10.

During our time together, Wendy displayed her talents in data analytics. When we first met, I was immediately impressed with Wendy, but during the time worked together, her understanding of analyzing data to achieve results for our company developed far more than that of her peers. In addition, it was gratifying to work with Wendy because of her remarkably positive attitude and ability to communicate across teams. Her focus and attention to details were valued by her peers as well, who often relied on her for any work related assistance.

01 July 2019

I am Mary De Silva, a project manager at Crane & Jenkins. I have 12 years of experience working in the technological industry and have seen many young professionals. It is my pleasure to recommend Wendy Jones for the Junior Data Analyst role with Cloud Clearwater. Ms. Jones is one individual I have worked with who is unique comparative to others.

Yours sincerely

Mary De Silva

Mary De Silva

Recommending Ms Wendy Jones for the Post of Junior Data Analyst

Martin Gomez
Senior Data Analyst
Cloud Clearwater
100 High Street
Colombo 10

If you need more information or specific examples, please do not hesitate to contact me on 555-111-9999. Since a recommendation letter only provides a brief account of the applicant's talents and achievements, I would be happy to further elaborate on my time working with Ms Wendy.

Dear Mr Gomez

Mary De Silva
Senior Project Manager
Crane and Jenkins
555 Main Lane
Colombo 05

I am undeniably confident that Wendy would be a valuable asset to Cloud Clearwater. Not only will she bring the required skills and experiences, she will be a dedicated employee in developing your company to the best of her abilities.

07 ▾

01 ▾

06 ▾

10 ▾

05 ▾

03 ▾

08 ▾

04 ▾

02 ▾

09 ▾

Write an essay on ONE of the following topics. Limit your essay to 250 words.

A. "What have you done?" the headmaster bellowed, all eyes now turned to me as he stood over the lifeless body on the playground.

Write a narrative essay using the prompt given as the beginning.

B. People throughout the world are ignoring the dangers of environmental pollution and of global warming in the hope that science and technology can find solutions. This is not true. We all need to take responsibility for the damage we are causing and must change our life-styles.

Provide your opinion in this regard with appropriate examples.

C. Modern technology has increased our material wealth but has decreased our personal happiness.

To what extent do you agree?



Online Exams

Sri Lanka Institute of Information Technology

is a program in execution in memory.



Online Exams

Sri Lanka Institute of Information Technology

Question 1

Not yet answered

Marked out of
1.00

Flag question

For the given vectors, \mathbf{u} and \mathbf{v} find the cross product $\mathbf{u} \times \mathbf{v}$

$$\mathbf{u} = \langle 1, 0, -3 \rangle$$

$$\mathbf{v} = \langle 2, 3, 0 \rangle$$

Select one:

- a. $9\mathbf{i} + 6\mathbf{j} + 3\mathbf{k}$
- b. $9\mathbf{i} - 6\mathbf{j} + 3\mathbf{k}$
- c. $2\mathbf{i} + 0\mathbf{j} + 0\mathbf{k}$
- d. $2\mathbf{i} + 3\mathbf{j} - 3\mathbf{k}$
- e. $5\mathbf{i} - 6\mathbf{j} + 3\mathbf{k}$

For the given IP address find the following.

IP address: - 172.18.10.1

- Network address: . . .
- Subnet mask: . . .
- Broadcast address: 172 . 18 . .
- Last usable IP address: 172 . 18 . .

Online Exams

Sri Lanka Institute of Information Technology

Question 28

Not yet answered

Marked out of 2.00

Flag question

Ivan typed "ipconfig" command while being connected to his home WiFi and obtained the following result. What is the broadcast address of his home network? (Write in dotted decimal)

C:\Windows\system32\cmd.exe

Windows IP Configuration

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix : lan

IP Address : 192.168.1.101
Subnet Mask : 255.255.255.0
Default Gateway : 192.168.1.1

Ethernet adapter Bluetooth Network Connection:

Media State : Media disconnected

ANSWER:

29
answered
out of
question

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



Online Exams

Sri Lanka Institute of Information Technology

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

Binary Form = 10101100 00001010 11001000 01101000

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



Online Exams

Sri Lanka Institute of Information Technology

The process of reconstituting zipped files is called



Online Exams

Sri Lanka Institute of Information Technology

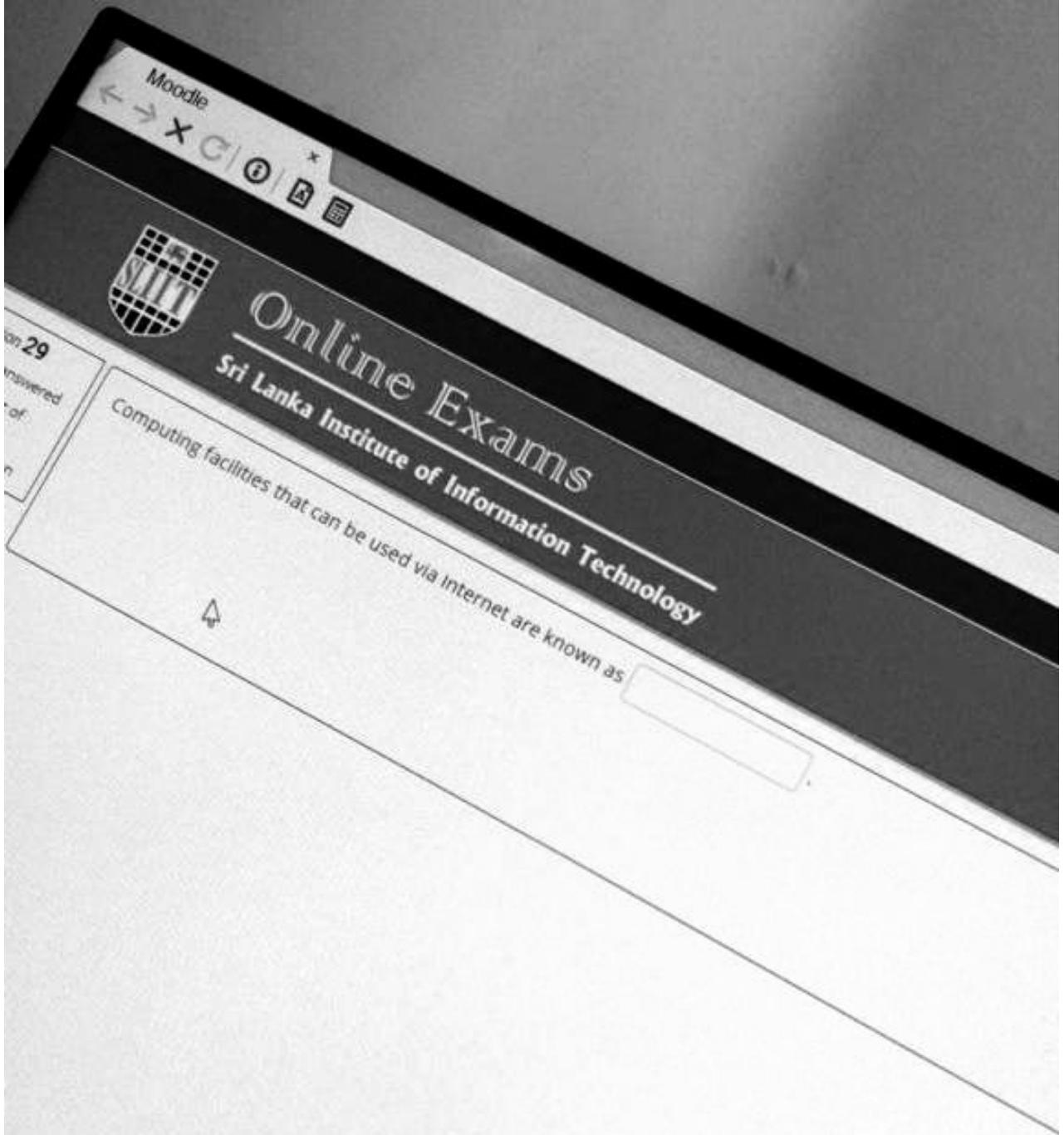
Select the most suitable statement.

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.

The screenshot shows a web browser window with a dark theme. At the top, there is a toolbar with icons for refresh, search, and other functions. Below the toolbar, the main content area displays a question from an online exam. On the left side of the question, there is a logo for the Sri Lanka Institute of Information Technology (SLIIT), which features a shield with various symbols. The question itself is as follows:

Size of the memory mainly depends on the size of the address bus.



Which is considered as most advanced ROM

Select one:

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

What is not an advantage of a computer network?

Select one:

- Resource Sharing
- Remote Information Access
- User Communication
- Interaction among cooperative application programs
- Social Engineering

Online Exams

Sri Lanka Institute of Information Technology

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

11000000.10101000.00001010.00001011

Select one:

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

Web Developer Tools - Mozilla Firefox

Converter - Conve X +
<https://www.browserling.com/tools/bin-to-ip>

Announcement: We just launched TECHURLS - a simple and fun
tech news aggregator. Check it out!

192.168.10.11

Conver[...] to IP! (undo)

Want to convert IP to binary?
Use the [IP to binary converter](#)

Looking for more programm





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

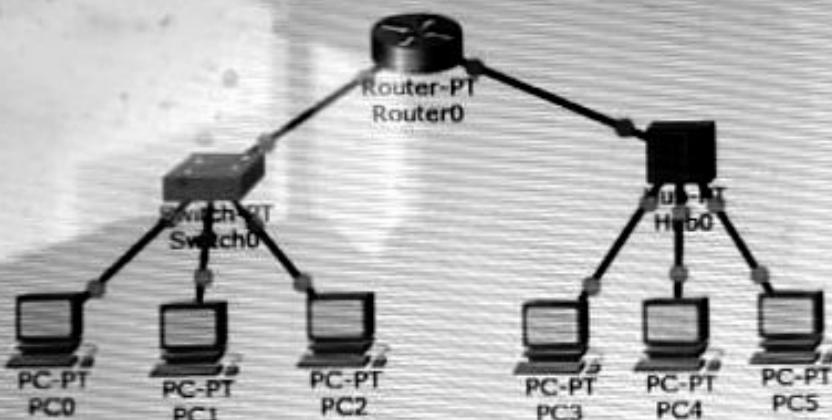
Question 1

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

Sri Lanka Institute of Information Technology

Which of the following are not networking devices? (Select two)

Select one or more:

- Gateway
- Linux
- Router
- ALU
- Switch



Question 18

Not yet answered

Marked out of
1.25 Flag question**Convert the number 1010110000110101 to a Hexadecimal number**

Select one:

- a. BC45
- b. BA35
- c. AC25
- d. AC45
- e. AC35

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



n 7
answered
d out of
g 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.



Online Exams

Sri Lanka Institute of Information Technology

tion 14

yet answered

ked out of

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



Online Exams

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Question 2

Not yet answered

Marked out of
1.25

Flag question

The only program always runs in the computer is

Select one:

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

Question 13

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

Question 2

Not yet answered

Marked out of
1.00

Flag question

Match the correct Security Term to given Courseweb scenarios.

Using a username and password to login to Courseweb .

Choose... ▾

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

Choose... ▾

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

Choose... ▾

Authorization
Authentication
Accounting

Next ▾

Question 4

Not yet answered

Marked out of
1.25 Flag question**How many characters have included in Unicode**

Select one:

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



Online Exams

Sri Lanka Institute of Information Technology

Question 10

Not yet answered

Marked out of
1.25

Flag question

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



Online Exams

Sri Lanka Institute of Information Technology

on 4
answered
d out of
g question

Match the correct Security Term to given Courseweb scenarios.

Using a username and password to login to Courseweb

Authorization ▾

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

Accounting ▾

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

Choose... ▾

Question 1

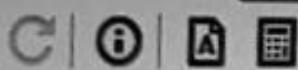
Not yet answered

Marked out of
1.25 Flag question**An OS activity that relates to Memory Management**

Select one:



- a. Backup files in to stable storage media
- b. Mapping files to secondary storage
- c. Allocating and de-allocating memory spaces as needed
- d. Creating and deleting user directories
- e. Creating and deleting both user and system processes



Online Exams

Sri Lanka Institute of Information Technology

Optical fibers operate based on an optical phenomena known as,

Select one:

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

Question 4

Not yet answered

Marked out of
1.00

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.
- Point to point connection is always build using a copper cable.
- Point to point connection is always build using a wireless media.
- Multi-point connection is always build using a wireless media.



Online Exams

Sri Lanka Institute of Information

Match the ISO-OSI Layer to correct address type used

Transport Layer

Network Layer

Data Link Layer

Choose...

Choose...

Registry Address

Port Address

MAC Address

Web Address

IP Address



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

Question 5
Not yet answered
Marked out of
0.00
* Flag question

Optical fibers operate based on an optical phenomena known as.

Select one:

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

Question 10

Not yet answered

Marked out of
1.00

 Flag question

The word 'their' in line 23 refers to

Select one:

- a. Whale song -
- b. Pacific Ocean humpbacks
- c. All whales
- d. Indian Ocean humpbacks

 Previous page

Question 8

Not yet answered

Marked out of
1.00

 Flag question

Which of the following can be inferred from the passage?

Select one:

- a. The research of musical brain will lead to a discovery of universal music.
- b. The earliest human beings came from France and Slovenia.
- c. Music helped to shape the whale brain.

[Previous page](#)

Question 3

Not yet answered

Marked out of
1.00 Flag question

The word 'one' in line 7 can be replaced by

Select one:

- a. The right brain
- b. The limbic system
- c. The left brain
- d. The chord

[Previous page](#)

Question 4

Not yet answered

Marked out of
1.00 Flag question

According to the passage which of the following is true about humpback whales?

Select one:

- a. They do not use rhyme, unlike humans
- b. Whale songs of a particular group cannot be learned by other whales.
- c. Their tunes are distinctively different from humans.
- d. They can sing over range of seven octaves.

[Previous page](#)

Question 1

Not yet answered

Marked out of

0

Flag question

What is the author's purpose of writing the passage?

Select one:

- a. To illustrate the importance of music to whales.
- b. To describe the music for whales, including humans.
- c. To suggest that music is independent of life forms that use it.
- d. To show that music is a modern invention.



Question 2

Not yet answered

Marked out of
1.00 Flag question

The word 'sophisticated' in line 4 is closest in meaning to

Select one:

- a. Complex
- b. Intricate
- c. Tangled
- d. Well-developed

[Previous page](#)