

Given the algorithm

Procedure NMT(a₁₁,a₁₂,...,a_{nn},b₁₁,b₁₂,...,b_{nn} : integer)

```
for i:=1 to n do
    for j:=1 to n do
        cij:=0;
for i:=1 to n do
    for j:=1 to n do
        for k:=1 to n do
            cij:= cij+aik*bkj;
```

$$\left. \begin{array}{l} i: 1 \rightarrow 5 : \\ j: 1 \rightarrow 5 : \\ k: 1 \rightarrow 5 : \end{array} \right\} 5^3 = 125$$

If n=5, how many multiplications are required ?

- a. 125
- b. 25
- c. 250
- d. 5

Question 6

Complete

Mark 1.00 out
of 1.00 Flag
question

Find the output of the recursive algorithm if input n = 5.

```
procedure TT(n: integer);
If n=1 then f(1):=3
else f(n):=f(n-1)*n;
```

$$\begin{cases} f(n) = f(n-1) \cdot n & \rightarrow f(5) = 5 \cdot \underline{f(4)} \\ f(1) = 3 & \underline{4f(3)} \\ & \underline{3f(2)} \\ & \underline{2f(1)} \end{cases}$$

$$5 \cdot \underline{4 \cdot \underline{3 \cdot \underline{2 \cdot f(1)}}} = 360$$

- A. 120
- B. 240
- C. 480
- D. None of the other choices
- E. 360

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

The correct answer is:

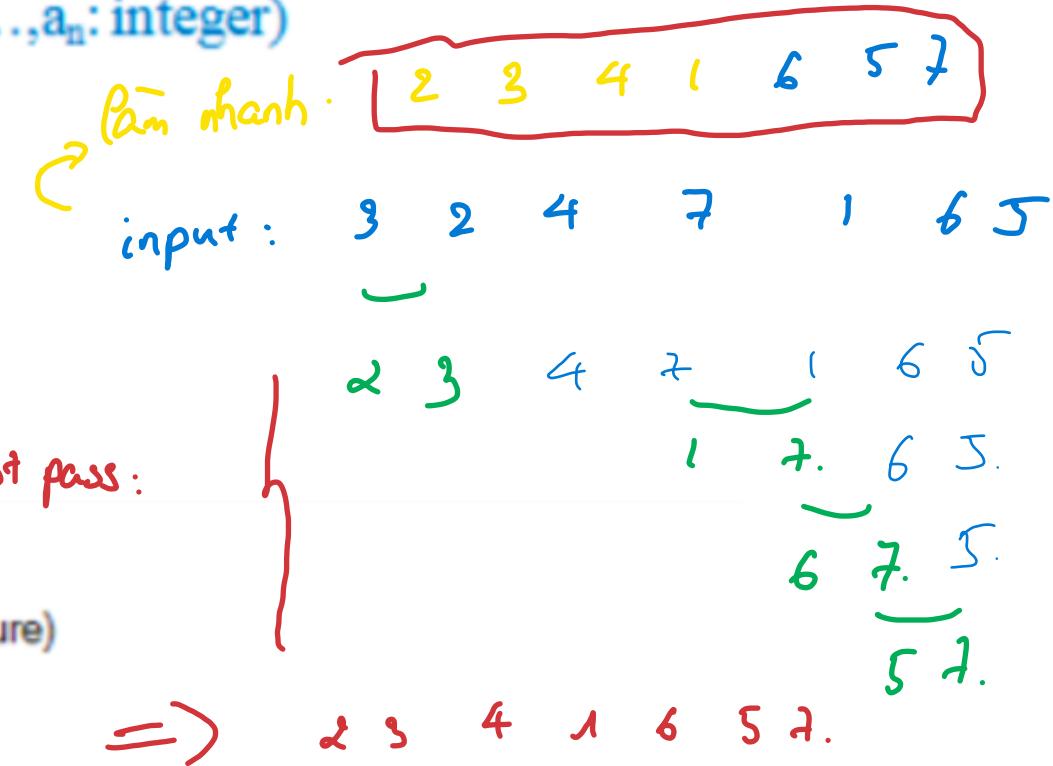
E

Procedure Bubblesort(a_1, a_2, \dots, a_n : integer)

```
for i = 1 to (n-1) do
    for j = 1 to (n-i) do
        if  $a_j > a_{j+1}$  then
            swap( $a_j, a_{j+1}$ )
```

(Choose 1 answer)

Given the Bubble sort algorithm (See picture)



If input = 3, 2, 4, 7, 1, 6, 5, find the order of the elements in the list after the first pass (i = 1).

- a. 2,3,1,4,5,6,7
- b. 2,3,4,1,6,5,7
- c. 2,3,1,4,6,5,7
- d. 2,3,4,1,5,6,7

The correct answer is:
2,3,4,1,6,5,7

Given the Euclidean algorithm to find the greatest common divisor of two positive integers a and b:

procedure GCD(a, b: positive integers)

X:= a

y:= b

while y > 0 : (y=0 → out loop)

begin

r := x mod y

x := y

y := r

end

{UCLN(a, b) = x}

GCD (a, b)

$$\text{1) } \begin{array}{r} x \\ \underline{201} \\ y \\ \underline{111} \\ R \\ \underline{90} \end{array} = \frac{R}{90}$$

$$\text{2) } \begin{array}{r} x \\ \underline{111} \\ y \\ \underline{90} \\ R \\ \underline{21} \end{array} = \frac{R}{21}$$

$$\text{3) } \begin{array}{r} x \\ \underline{21} \\ y \\ \underline{6} \\ R \\ \underline{0} \end{array} = \frac{R}{0}$$

How many divisions are used to find GCD(201, 111)? = 3.

- a. 6
- b. 5
- c. 8
- d. 7

$$\text{4) } \begin{array}{r} x \\ \underline{21} \\ y \\ \underline{6} \\ R \\ \underline{0} \end{array} = \frac{R}{0}$$

$$\text{5) } \begin{array}{r} x \\ \underline{6} \\ y \\ \underline{3} \\ R \\ \underline{0} \end{array} = \frac{R}{0} \rightarrow \text{out loop}$$

The correct answer is:

5

Question 39

Not answered

Marked out of
1.00

Flag
question

Let $f(n)$ be the complexity of the binary search algorithm on the sequence of size n in terms of the number of comparisons.

→ Split

The divide and conquer relation of $f(n)$ is

$$f(n) = af(n/2) + b, \text{ n is even}$$

. Find a .

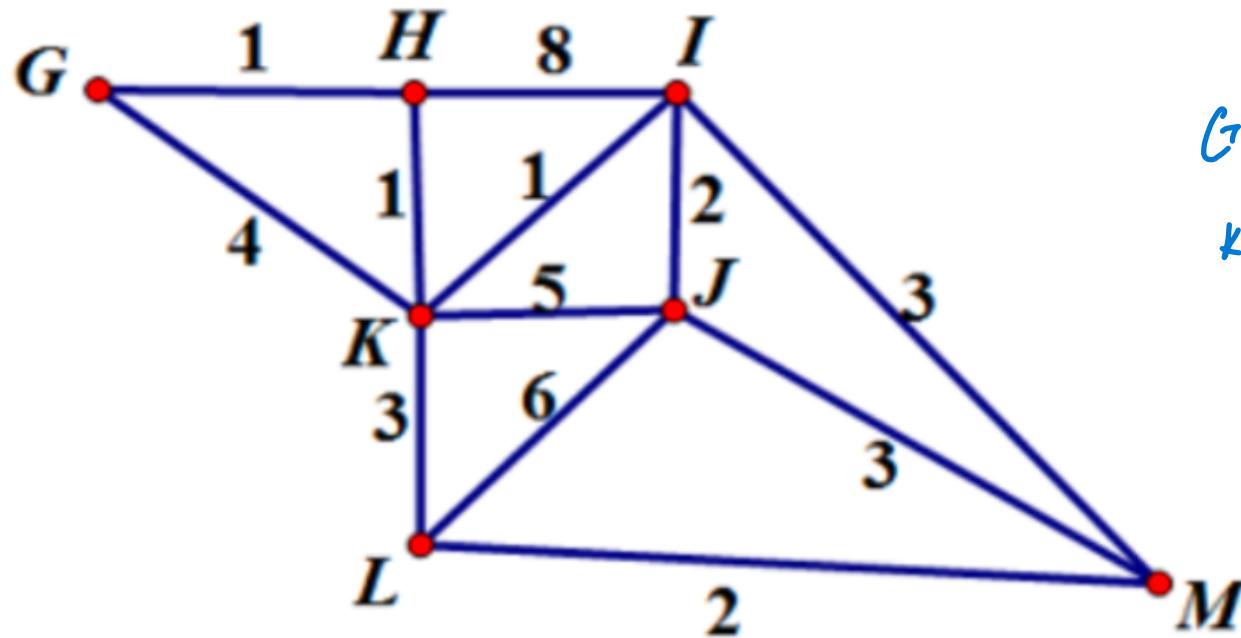
- a. 1
- b. 4
- c. 3
- d. 2

The correct answer is:

1

Question 21

Complete

Mark 0.00 out
of 1.00 Flag question

$G \rightarrow H \rightarrow K : 2$ } 8 step.
 $K \rightarrow I \rightarrow J \rightarrow M : 6$

(Choose 1 answer)

→ tìm 4 đỉnh đầu tiên

Which are the first 4 vertices chosen when using Dijkstra algorithm to find the shortest path from G to M?

(See picture)

bám theo đáp án

- a. G-K-H-M
- b. G-H-K-I
- c. G-H-K-L
- d. G-K-H-J
- e. G-H-K-M

The correct answer is:
G-H-K-I

Question 2

Complete

Mark 1.00 out
of 1.00 Flag
question

Find the algebraic expression whose prefix notation is given as

giá . * 3 + x y ↑ - x y 2 Cảm từ cuối

$$+ * 3 [\overbrace{(x+y)}^{x+y} + \overbrace{\frac{x-y}{(x-y)^2}}^{\frac{1}{(x-y)}}]$$

(i) $(3x + y) + (x - y)^2$

(ii) $3((x + y) + (x - y)^2)$

(iii) $3(x + y) + (x - y)^2$

- a. i
- b. ii
- c. iii

The correct answer is:

iii

Which of these codes is prefix code?

- A. a: 101; b: 110; c: 10; d: 11
- B. a: 101; b: 100; c: 11; d: 111
- C. a: 101; b: 100; c: 10; d: 11
- D. a: 101; b: 100; c: 110; d: 11
- E. None of the other choices is correct

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

The correct answer is:

E

Xh nhì phân đố̄i của the đ : o là prefix codes.

→ Prefix code .. → Lỗi đính th^o g là "prefix"

Question 7

Not answered

Marked out of

1.00



Flag

question

Which argument is valid?

- A. Any freshman must take Discrete Mathematics. An is a freshman. Therefore An must take Discrete Mathematics.
- B. Any student has a laptop. An has a laptop. Therefore An is a student.
- C. Any student can access this website. An is not a student. Therefore An cannot access this website.
- D. Any one who score below 4 in the exam will have to retake the class. An retook this class. Therefore An scored below 4 in the exam

- a. A
- b. C
- c. D
- d. V

The correct answer is:

A

Which conclusion can be draw if following premises are given:

"I can speak English or Germany"

"If I can speak Germany. I will study a master degree in German."

"I do not study a master degree in German"

- A. I can speak both English and Germany
- B. I can speak Germany but cannot speak English
- C. No conclusion is drawn
- D. I can speak English but cannot speak Germany.

- a. A
- b. B
- c. C
- d. D

The correct answer is:

D

Suppose $L(x,y)$ is the statement

" x buys Christmas gifts for y ",
where x and y are members of a family.

Translate the statement into logical expression

"Each family member buys Christmas gifts for any other member but not for himself or herself"

- (i) $\exists x(\neg L(x,x))$
- (ii) $\forall x(\neg L(x,x))$
- (iii) $\forall x(\forall y L(x,y))$
- (iv) $\forall x(\forall y((y \neq x) \leftrightarrow L(x,y)))$

- a. iv
- b. i
- c. ii
- d. iii

The correct answer is:
iv

Given the proposition

$$(p \rightarrow q) \wedge (r \rightarrow s) \wedge (p \rightarrow r) \wedge (q \rightarrow s) : \text{chicken } p, r, q = 0.$$

Which of the following tuples makes this proposition True? $p \rightarrow q$: True.

(Choose 1 answer)

Chi: $p=0$ or $q=1$.

(See picture)

- A. $p = \text{True}$, $q = \text{False}$, $s = \text{True}$, $r = \text{False}$
- B. None of the other choices is correct
- C. $p = \text{True}$, $q = \text{False}$, $s = \text{True}$, $r = \text{True}$
- D. $p = \text{False}$, $q = \text{False}$, $s = \text{False}$, $r = \text{True}$

- E. $p = \text{False}$, $q = \text{False}$, $s = \text{True}$, $r = \text{False}$

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

Question 26

Complete

Mark 1.00 out
of 1.00

Flag
question

Find a proposition that is logically equivalent to

$$p \rightarrow q \equiv \neg p \vee q$$

$$(p \rightarrow T) \wedge (q \rightarrow F)$$

(i) $\neg q$ $\frac{\neg p \vee T}{\text{True.}}$ (ii) p \downarrow (iii) $\neg p$ (iv) q

phụt vào $\boxed{\neg q}$

- a. iv
- b. iii
- c. i
- d. ii

The correct answer is:

i

Tìm True hoặc False

Find the truth value of each of the following propositions, where x represents an integer.

$$x = 1, 2, 3, \dots \quad \perp = L.$$

(M) $\exists x \left[\underbrace{(x > 0)}_{\text{L}} \wedge \underbrace{(x^3 < 1)}_0 \right] : \text{False.}$

(N) $\forall x \left[\underbrace{(x > 0)}_0 \vee \underbrace{(x^3 < 0)}_0 \right] : \text{False.} \because \text{Có số nguyên nào } ^\wedge \text{lên b'} \text{ "nguyên âm có th'} < 0.$

(P) $\exists x \left[(x > 0) \vee (x^3 < 1) \right]$

- a. Only P is true
- b. Only M is true
- c. Only N is true
- d. All of M,N,P are true

$$x = 1. \quad \text{True.} \quad \checkmark \quad \text{False} \rightarrow \text{True.}$$

The correct answer is:
Only P is true

Question 13

Not answered

Marked out of
1.00

Flag
question

Consider the problem:

Prove that $P(n)$ = "for all $n \geq 12$ we have $n = 4a + 5b$ with a, b non-negative integers" is true.

In the strong induction proof, assuming that $P(k)$ is true for some k , in order to prove $P(k+1)$ is true, we should _____

- A. use $P(k - 3) = "k - 3 = 4x + 5y, (x, y \text{ non-negative integers})"$ is true and $k + 1 = (k - 3) + 4$.
- B. use $P(k - 1) = "k - 1 = 4x + 5y, (x, y \text{ non-negative integers})"$ is true and $k + 1 = (k - 1) + 2$.
- C. use $P(k - 2) = "k - 2 = 4x + 5y, (x, y \text{ non-negative integers})"$ is true and $k + 1 = (k - 2) + 3$.

- a. C
- b. A
- c. B

The correct answer is:

A

Which of the following is a function?

(i) $f: \mathbb{Z} \times \mathbb{Z} \rightarrow \mathbb{Z}$, $f(m, n) = \left\lfloor \sqrt{\underline{m+n}} \right\rfloor$: : có thể là số -thập phân

(ii) $f: \mathbb{Z} \times \mathbb{Z} \rightarrow \mathbb{Z}$, $f(m, n) = \frac{\underline{m}}{2} + n$: : có thể là số thập phân

(iii) $f: \mathbb{Z} \times \mathbb{Z} \rightarrow \mathbb{Z}$, $f(m, n) = \left\lfloor \frac{m+n}{2} \right\rfloor$

(iv) $f: \mathbb{Z} \times \mathbb{Z} \rightarrow \mathbb{Z}$, $f(m, n) = \left\lfloor \sqrt{m} \right\rfloor + \left\lceil \sqrt{n} \right\rceil$: : Z: có thể là số âm. : theo \sqrt{ssam}

- a. iv
- b. iii
- c. i
- d. ii

The correct answer is:
iii

Question 36

Complete

Mark 1.00 out
of 1.00

Flag question

Which of the following is a function?

(i) $f: \mathbf{N} \rightarrow \mathbf{N}, f(n) = \sqrt{n}$

(ii) $f: \mathbf{N} \rightarrow \mathbf{R}, f(n) = \sqrt{n}$

(iii) $f: \mathbf{R} \rightarrow \mathbf{N}, f(n) = \sqrt{n}$

(iv) $f: \mathbf{R} \rightarrow \mathbf{R}, f(n) = \sqrt{n}$

 $\forall n \in \mathbf{R}$ $\exists! n'$

- a. iii
- b. iv
- c. i
- d. ii

 $f(n) = \sqrt{n}$ chì oténg khi $f: \mathbf{N} \rightarrow \mathbf{R}$.R: là số nguyên \rightarrow số thực có thể xác định.

The correct answer is:

ii

Question 5

Not answered

Marked out of
1.00

Flag
question

Let $A = \{-1, 0, 1, 2, 3, \dots\}$.

Which of the following functions are one-to-one from A to \mathbb{Z} ?

$$f(n) = n^2 - 1, \quad g(n) = n^3 - 1, \quad h(n) = n^2 + 2n$$

- a. f,h
- b. all of f,g,h
- c. g,h
- d. f,g

The correct answer is:

g,h

Question 9

Not answered

Marked out of
1.00

Flag
question

Find the smallest integer n such that the following function is $O(x^n)$

$$f(x) = \sqrt{x^8 + x^4 + x^2 + 1}$$

(Choose 1 answer)

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

The correct answer is:

4

Question 16

Complete

Mark 1.00 out
of 1.00 Flag
question

Assume that $f(n)=4f(n/7)+2n$ and $f(4)=3$. Find $f(196)$.

A. 664

B. 272

C. 440

D. 48

E. None of the other choices is correct

$$\overbrace{4 \cdot f(28) + 392}.$$

$$\overbrace{4 \cdot f(4) + 56}.$$

—

3.

$$\Rightarrow 4[(4 \cdot 3) + 56] + 392 = 664$$

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

The correct answer is:

A

Let $A = \{1, 2, 3, 4, 5\}$. How many functions from A to A such that $f(1)$ is different from $f(2)$?

A. 120

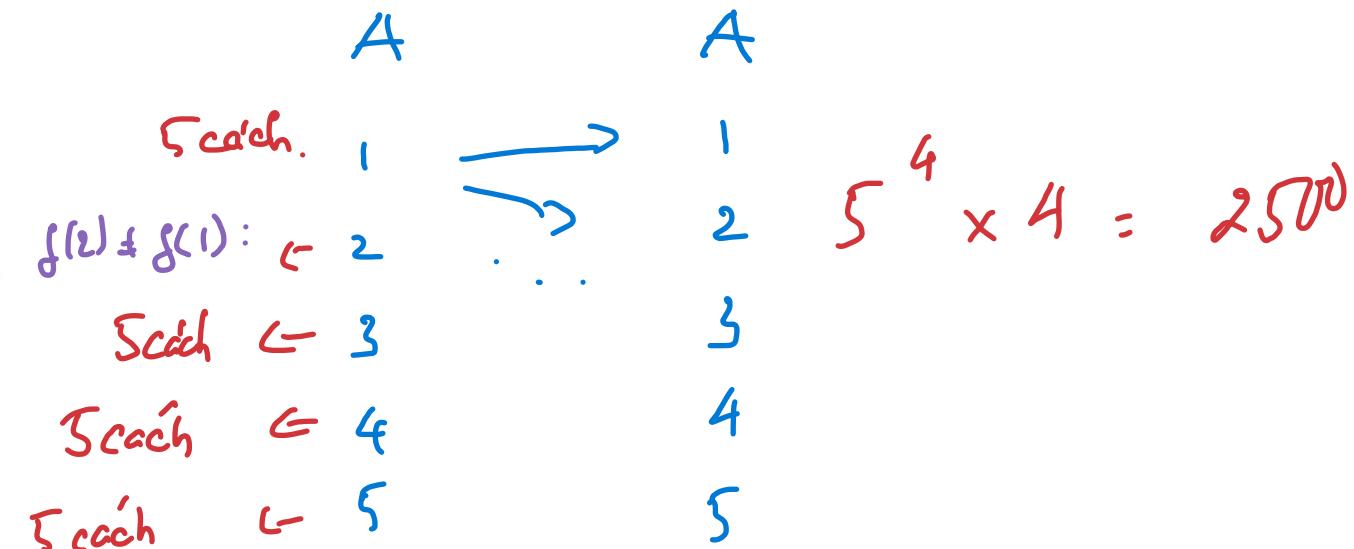
B. 625

C. 3125

D. None of the other choices is correct

E. 2500

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



The correct answer is:

E

Question 48

Not answered

Marked out of

1.00

Flag
question

Let $\mathbb{N} = \{0, 1, 2, 3, \dots\}$.

Which of the following functions are onto from \mathbb{N} to \mathbb{N} ? _____

$$f(n) = \lceil n - \frac{1}{2} \rceil$$

$$g(n) = \lfloor n \rfloor$$

$$h(n) = n+1$$

- a. only g
- b. f and g
- c. only h
- d. g and h

The correct answer is:
f and g

Question 49

Not answered

Marked out of
1.00

Flag
question

Find $f(3)$ if $f(9) = 25$ and

$$f(n) = 7 - \frac{n^2}{9} f\left(\frac{n}{3}\right)$$

$$f(9) = 7 - 9 \cdot f(3) = 25.$$

$$9 \cdot f(3) = -18$$

$$f(3) = -2.$$

(Choose 1 answer)

(See picture)

- A. -1
- B. None of the other choices is correct
- C. 2
- D. -2
- E. 1

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

The correct answer is:

D

Question 17

Complete

Mark 0.00 out
of 1.00

Flag
question

Which set contains the element {a, b}?

$$X = \{a, b\}$$

$$Y = P(\{a, \{a, b\}\})$$

A. X

B. Y

C. X and Y

 D None of the other choices is correct

- a. A
- b. B
- c. D
- d. C

The correct answer is:

D

Question 30

Complete

Mark 1.00 out
of 1.00

Flag
question

0011100010

Let $U = \{a, b, c, d, e, f, g, h, i, j\}$.

Given the subsets $A = \{a, c, d, e, i\}$, $B = \{a, f, g, h, j\}$. The bit string representing the subset $A - B$ is _____

- A. None of the other choices
- B. 0001111010
- C. 0101100010
- D. 0011100010
- E. 0010110010

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

} c e {

The correct answer is:

D

Question 41

Complete

Mark 1.00 out
of 1.00 Flag
question

Let S be the subset of the set of ordered pairs of integers defined recursively by

Basis step: $(0,0) \in S$.

Recursive step: If $(a, b) \in S$, then $(a+2, b+3) \in S$ and $(a+3, b+2) \in S$.

Which element is in S ?

- a. $(10,15)$
- b. $(9,15)$
- c. $(8,15)$
- d. $(12,15)$

$(0,0) \in S$
 $(a+2, b+3)$ and $(a+3, b+2)$

| | | | |
|------|------|------|------|
| 2 | 3 | 3 | 2 |
| 4 | 6 | 6 | 4 |
| 6 | 9 | 9 | 6 |
| 8 | 12 | 12 | 8 |
| 10 | 15 | 15 | 10 |

The correct answer is:
 $(10,15)$

Question 46

Not answered

Marked out of
1.00

Flag
question

Let

$$A = \{0, 2, 4, 6, 8, 10\}, B = \{1, 2, 3, 4, 5, 6\} \text{ and } C = \{1, 2, 3, 4, 5, 7, 8, 9\}. \quad (A \cup B) = \{0, 1, 2, 3, 4, 5, 6, 8, 10\}$$

\cap C.

What is the cardinality of the set $(A \cup B) - C$? $\Rightarrow = \{0, 6, 10\}$

$$|S|: \text{so' pti' } \neq \text{man:} \rightarrow |S|=3$$

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

The correct answer is:

3

Question 27

Complete

Mark 0.00 out
of 1.00

Flag
question

Which sequence $\{a_n\}$ that does NOT satisfy the recursive relation

$$a_n = -3a_{n-1} + 4a_{n-2}$$

(i) $a_n = (-4)^n$

(ii) $a_n = 1$

- a. None of other choices is correct
- b. ii
- c. Both i and ii
- d. i

The correct answer is:

None of other choices is correct

Question 31

Complete

Mark 0.00 out
of 1.00

 Flag
question

Given a recursive relation

$$a_n = -3a_{n-1} + 4a_{n-2}$$

Which of the following formulas satisfy this relation?

(i) $a_n = -12$

(ii) $a_n = (-4)^n$

(iii) $a_n = -1$

- a. only ii
- b. only i
- c. All of i, ii and iii
- d. only iii

The correct answer is: All of i, ii and iii

Let $f(n)$ be recursively defined as

$$f(0)=1, f(1)=2 \text{ and } f(n+1)=2f(n)-f(n-1)$$

for all positive integer n .

Find $f(2010)$. : *xem n'pti đóm tien :*

- A. 4020
- B. 2011
- C. 505
- D. None of the other choices is correct
- E. 2010

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

$$f(n) = -\frac{f(n-1) - f(n-2)}{2}$$

$$\left. \begin{array}{l} f(0) = 1 \\ f(1) = 2 \\ f(2) = 2f(1) - f(0) = 3 \\ f(3) = 2f(2) - f(1) = 4 \\ \dots \end{array} \right\}$$

$$\Rightarrow f(2010) = 2^{2011}$$

The correct answer is:
B

Question 32

Not answered

Marked out of
1.00

Flag question

A young pair of rabbits (one of each sex) is placed on an island. A pair of rabbits does not breed until they are 2 month old. After they are 2 month old, they will produce 2 pairs of rabbit each month.

Find the number of pairs of rabbits after 5 month.

- a. 21
- b. 20
- c. 11
- d. 13

Thuật toán đếm nâng cao : [Fibonacci] $\left\{ \begin{array}{l} a_1 = 1, a_2 = 1 \\ a_n = a_{n-1} + a_{n-2} \end{array} \right. : n \geq 3$

“ recurrence relation ” :

| Month. | Pairs |
|--------|-------|
| 1 | 1 |
| 2 | 1 |
| 3 | 2 |
| 4 | 3 |
| 5 | 5 |

$$\sum = 12.$$

The correct answer is:
11

Find the number of positive integers that do not exceed 2016 and are divisible by 7 or 9.

- A. 512
- B. None of the other choices is correct
- C. 224
- D. 288
- E. 480
- F. 64

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

The correct answer is:

E

Question 15

Complete

Mark 1.00 out
of 1.00

Flag
question

How many positive integers not exceeding 200 and divisible by 2 or 3?

- A. 135
 - B. None of the other choices is correct
 - C. 166
 - D. 153
 - E. 133
- a. D
 - b. C
 - c. E
 - d. B
 - e. A

The correct answer is:

E

Question 33

Complete

Mark 1.00 out
of 1.00

Flag
question

How many positive integers not exceeding 200 and divisible by 5 or 7?

- A. 64
- B. 66
- C. 65
- D. None of the other choices is correct
- E. 63

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

The correct answer is:

E

Question 44

Not answered

Marked out of
1.00

Flag
question

How many 3-digit numbers that are divisible by 2 or 3?

- A. 150
- B. 200
- C. 300
- D. 600
- E. None of the other choices is correct

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

The correct answer is:

D

Question 25

Not answered

Marked out of
1.00

Flag
question

How many positive integers not exceeding 1000 that are perfect squares or perfect cubes?

- A. None of the other choices is correct
- B. 39
- C. 38
- D. 40
- E. 41
- F. 42

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

The correct answer is:

C

Question 28

Complete

Mark 1.00 out
of 1.00

 Flag
question

How many primes are there on the interval between 5 and 40, inclusive?

A. 11

B. 8

C. 9

D. 13

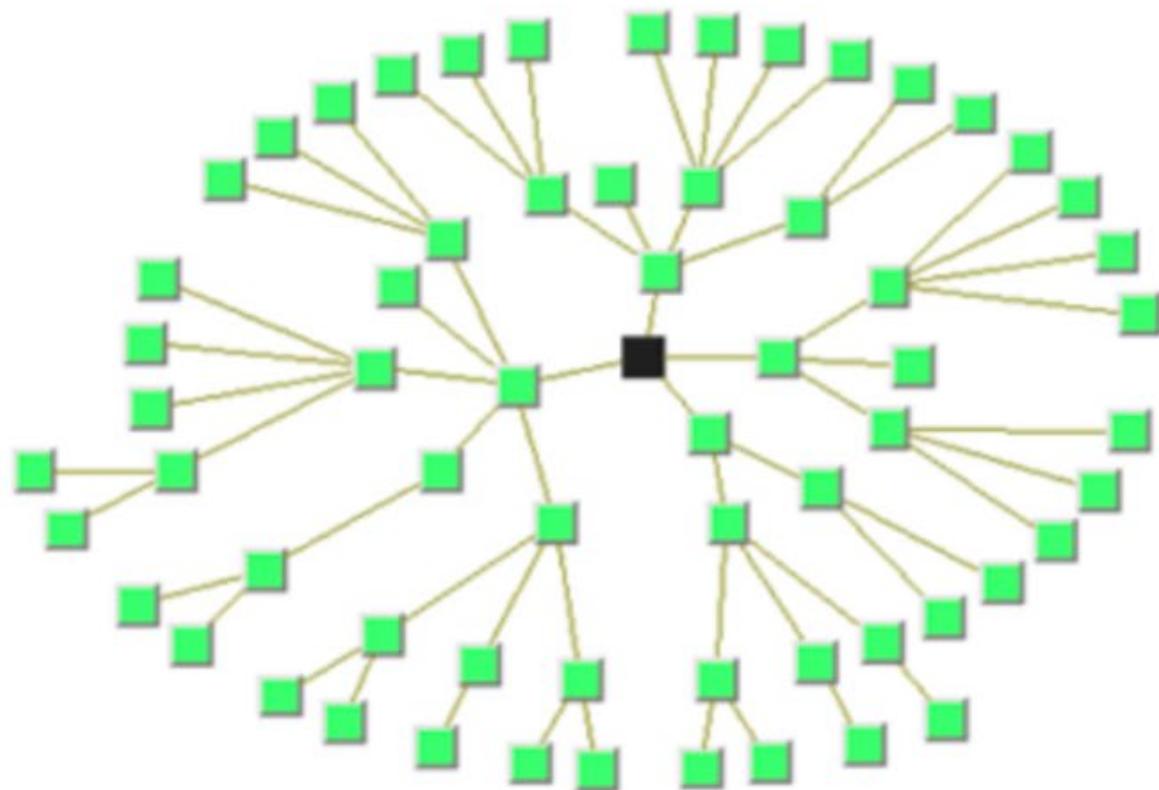
E. 10

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

The correct answer is:

C

Consider the rooted tree where the root is the black square.
What is the height of this tree?



- a. 5
- b. 2
- c. 2
- d. 4
- e. 6

The correct answer is:

Question 23

Complete

Mark 0.00 out

of 1.00

Flag

question

Construct a binary search tree for the sentence

"Do not count your chickens before they are hatched"

then find how many comparisons are needed to search the word "hatched".

- A. 4
- B. None of the other choices is correct
- C. 2
- D. 5
- E. 3

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

The correct answer is:

E

Question 35

Not answered

Marked out of
1.00

Flag
question

Find the maximum number of vertices in a binary tree of height 5.

A. 65

B. 76

C. 83

D. 63

- a. D
- b. A
- c. B
- d. C

The correct answer is:

D

Question 37

Complete

Mark 0.00 out
of 1.00

Flag
question

Fill in the blank: "The graph...has...edges"

- (i) $C_n, 2n$
- (ii) $K_{m,n}, mn$
- (iii) $W_n, 2n + 1$
- (iv) K_n, n^2

(Choose 1 answer)

(See picture)

- a. ii
- b. i
- c. iii
- d. iv

The correct answer is:

i

Question 47

Not answered

Marked out of
1.00

Flag
question

For $n = 4$, which of the following special graphs is bipartite?

- A. K_n
- B. C_n
- C. None of the other choices is correct
- D. W_n

- a. B
- b. D
- c. C
- d. A

The correct answer is:

B

Question 3

Not answered

Marked out of

1.00



Flag

question

Let G be a simple undirected graph with 20 vertices. Find the maximum number of edges of G .

A. 400

B. 380

C. 190

D. 20

E. 200

a. C

b. A

c. B

d. D

e. E

The correct answer is:

C

Question 4

Not answered

Marked out of
1.00

Flag
question

How many non-isomorphic simple graphs with 3 vertices?

- A. 2
 - B. 3
 - C. None of the other choices is correct
 - D. 1
 - E. 4
-
- a. B
 - b. C
 - c. A
 - d. E

The correct answer is:

E

Question 40

Not answered

Marked out of
1.00

Flag
question

Let u, v be two vertices of the graph $K_{2,2}$, one on each side. How many paths of length 4 between u and v ?

(Choose 1 answer)

(See picture)

- A. 0
- B. 8
- C. None of the other choices is correct
- D. 2
- E. 4

- a. B
- b. C
- c. D
- d. A

The correct answer is:

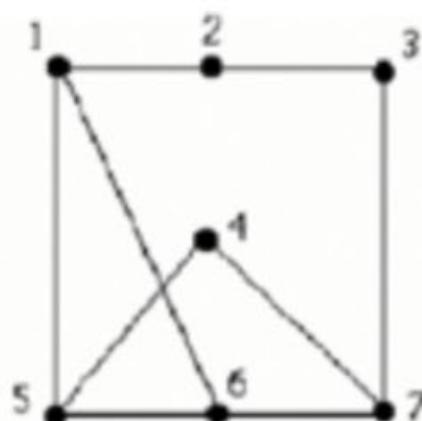
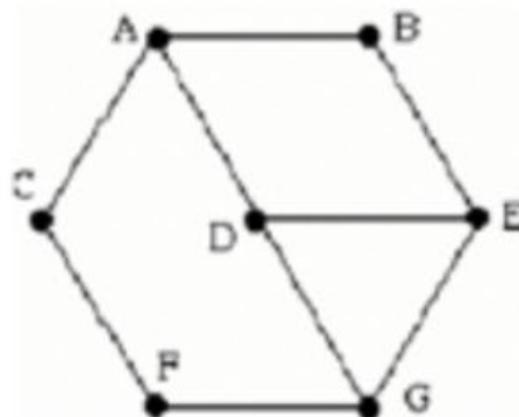
A

Question 12

Not answered

Marked out of
1.00

Flag
question



(Choose 1 answer)

Are these two graphs isomorphic?

- A. Yes
- B. No

- a. B
- b. A

The correct answer is:

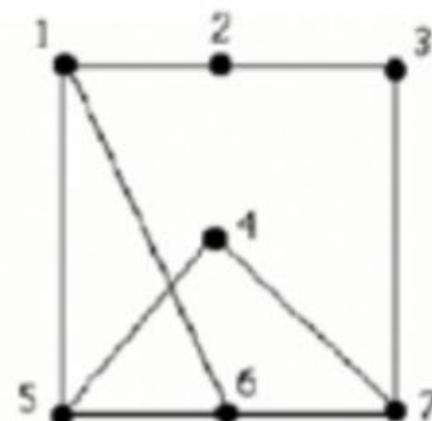
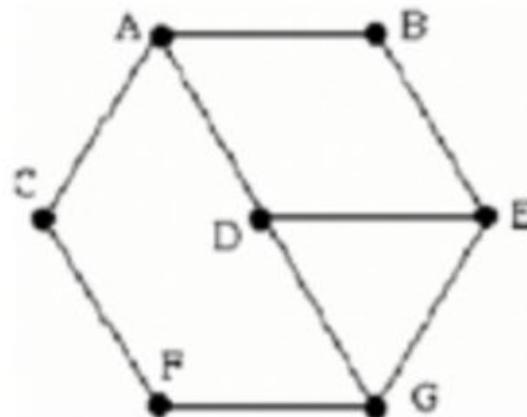
A

Question 45

Complete

Mark 1.00 out
of 1.00

Flag
question



(Choose 1 answer)

Are these two graphs isomorphic?

- A. Yes
- B. No

- a. A
- b. B

The correct answer is:

A

Question 38

Not answered

Marked out of
1.00

Flag
question

For what values of n does the graph Q_n have Hamilton circuits?

(Choose 1 answer)

(See picture)

- A. no values of n
- B. n is even
- C. None of the other choices is correct
- D. n is odd
- E. $n > 1$

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

The correct answer is:
E

Question 22

Complete

Mark 1.00 out
of 1.00

 Flag
question

Find

$$\sum_{i=1}^{20} (2i + 1)$$

- a. 400
- b. 441
- c. 401
- d. 440

The correct answer is:
440

Question 42

Complete

Mark 0.00 out
of 1.00 Flag
question

Let a , b , c be positive integers.

Which statements are FALSE?

(i) If $3|b$ then $3|(b+2014)$

(ii) If $3|(a+b)$ then $3|a$

(iii) If $a|(bc)$ then $a|b$

A. All of (i), (ii) and (iii)

B. (ii), (iii)

C. (i), (ii)

D. (iii)

 a. A b. C c. B d. D

The correct answer is:

A