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Answers and explanation

Qn.1

Direction (1-2)Arrange letters into a meaningful word.

O p t c i
1 2 3 4 5

    A. 54123

✓   B .31254

    C. 12543

    D. 42315

Qn.2

g p a r h a r a p

    A. 132476985

    B. 931247853

✓   C. 234617895

    D. 32566987

Qn.3

In the questions below the sentences have been given in Active/Passive voice. From the given alternatives, choose the one which best expresses the given sentence in Passive/Active voice.

She makes cakes every Sunday.

    A. Every Sunday cakes made by her.

✓   B. Cakes are made by her every Sunday.

    C. Cakes make her every Sunday.

    D. Cakes were made by her every Sunday.

Qn.4

She spoke to the official on duty.

✔ A. The official on duty was spoken to by her

B. The official was spoken to by her on duty.

C. She was spoken to by the official on duty.

D. She was the official to be spoken to on duty.

Qn.5

The doctor advised the patient not to eat rice.

✔ A. The patient was advised by the doctor not to eat rice.

✘ B. The patient was advised by the doctor that he should not eat rice.

C. The patient was being advised by the doctor that he should not rice by the doctor.

D. The patient has been advised not to eat rice by the doctor.

Qn.6

I cannot accept your offer.

✔ A. Your offer cannot be accepted by me.

B. I cannot be accepted by your offer.

C. The offer cannot be accepted by me.

✘ D. Your offer cannot be accepted.

Qn.7

You should open the wine about three hours before you use it.

A. Wine should be opened about three hours before use.

B. Wine should be opened by you three hours before use.

✘ C. Wine should be opened about three hours before you use it.

✔ D. Wine should be opened about three hours before it is used.

Qn.8

Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.

The grapes are now ...... enough to be picked

A. ready

B. mature

✔ C. ripe

D. advanced

Qn.9

Success in this examination depends ...... hard work alone.

A. At

B. over

C. For

✔ D. on

Qn.10
My uncle decided to take ...... and my sister to the market.

    A. I

    B. mine

✅   C. me

    D. myself

Qn.11
Directions (11-13): In the following the questions choose the word which best expresses the meaning of the given word.
STRINGENT

    A. Dry

    B. Strained

✅   C. Rigorous

    D. Shrill

Qn.12
LAMENT

✔️   A. Bewail

    B. Comment

❌   C. Condone

    D. Console

Qn.13
RECKLESS

    A. Courageous

✅   B. Rash

    C. Bold

    D. Daring

Qn.14
In the following questions choose the word which is the exact OPPOSITE of the given words.
MORTAL

    A. Divine

✅   B. lifegiving

    C. Spiritual

    D. Daring

Qn.15
QUIESCENT

✔️   A. Active

❌   B. Dormant

C. Weak

D. Unconcerned

Qn.16

Aptitude question:

Pointing towards a man, a woman said, "His mother is the only daughter of my mother." How is the woman related to the man?

A. Mother

Answer:
A. Mother

Explanation:

Explanation: Only daughter of my mother → myself.Hence, the woman is the mother of the man.

B. Grandmother

C. Sister

D. Daughter

Qn.17

A boat can travel with a speed of 13 km/hr in still water. If the speed of the stream is 4 km/hr, find the time taken by the boat to go 68 km downstream ?

A. 2 hours

B. 3 hours

C. 4 hours

Answer:
C. 4 hours

Explanation:

Speed downstream = (13 + 4) km/hr = 17 km/hr.
Time taken to travel 68 km downstream = (68/17)hrs = 4 hrs.

D. 5 hours

Qn.18

A man can row three-quarters of a kilometre against the stream in 11 1/4 minutes and down the stream in 7 1/2minutes. The speed (in km/hr) of the man in still water is:

A. 2

B. 3

C. 4

D. 5

Answer:
D. 5

Explanation:

We can write three-quarters of a kilometre as 750 metres,

and $11\frac{1}{4}$ minutes as 675 seconds.

Rate upstream = (750/675)m/sec = 10/9 m/sec
Rate downstream = (750/450)m/sec = 5/3 m/sec
Rate in still water = 1/2(10/9 + 5/3)m/sec.
= (25/18)m/sec
= (25/18 x 18/5)m/sec
= 5km/hr.

Qn.19

In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected, is:

A. 21/46

Answer:

A. 21/46

Explanation:

Let S be the sample space and E be the event of selecting 1 girl and 2 boys.

= $25C_3$

= (25x24x23)/(3x2x1)

= 2300

n(E) = ($^{10}C_1$ x $^{15}C_2$)

= [10 x (15 x 14)/(2 x 1)]

= 1050

P(E) = n(E)/n(S) = 1050/2300 = 21/46.

B. 25/117

C. 1/50

D. 3/25

Qn.20

Two numbers A and B are such that the sum of 5% of A and 4% of B is two-third of the sum of 6% of A and 8% of B. Find the ratio of A : B ?

A. 2 : 3

B. 1 : 1

C. 3 : 4

D. 4 : 3

Answer:

D. 4 : 3

Explanation:

sum of 5% of a and 4% of b = 5/100 * a + 4/100 * b

sum of 6% of A and 8% of B = 6/100 * a + 8/100 * b

5/100 * a + 4/100 * b =2/3 (6/100 * a + 8/100 * b)

3(5/100 * a + 4/100 * b)= 2 (6/100 * a + 8/100 * b)

15a/100 + 12b/100 = 12a/100 + 16b/100

(15a+ 12b)/100 = (12a + 16b)/100 (cancel 100)

15a + 12b = 12a + 16b

15a - 12a = 16b - 12b

3a = 4b

a/b = 4/3

a:b = 4:3

Qn.21

If 20% of a = b, then b% of 20 is the same as:

A. 4% of a

Answer:

A. 4% of a

Explanation:

20*a/100=b

and

b/100*20=?

on multiplying 20/100 on eq 1 then it becomes

20*20*a/10000=b*20/100

4*a/100=b*20/100

4% of a=b% of 20

B. 5% of a

C. 20% of a

D. None of these

Qn.22

Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can be formed?

A. 210

B. 1050

C. 25200

Answer:

C. 25200

Explanation:

Explanation:

Number of ways of selecting (3 consonants out of 7) and (2 vowels out of 4)

$$= (^7C_3 \times {}^4C_2)$$

$$= \left(\frac{7 \times 6 \times 5}{3 \times 2 \times 1} \times \frac{4 \times 3}{2 \times 1} \right)$$

= 210.

Number of groups, each having 3 consonants and 2 vowels = 210.
Each group contains 5 letters.

Number of ways of arranging 5 letters among themselves = 5!

= 5 x 4 x 3 x 2 x 1

= 120.

Required number of ways = (210 x 120) = 25200.

D. 21400

Qn.23

Two pipes A and B can fill a cistern in 37 minutes and 45 minutes respectively. Both pipes are opened. The cistern will be filled in just half an hour, if the B is turned off after:

A. 5 min.

B. 9 min.

Answer:

B. 9 min.

Explanation:

Let B be turned off after x minutes. Then,

Part filled by (A + B) in x min. + Part filled by A in (30 -x) min. = 1.

x(2/75 + 1/45) + (30 - x). 2/75 = 1

11x/225 + (60 - 2x)/75 = 1

11x + 180 - 6x = 225.

x = 9.

C. 10 min.

D. 15 min.

Qn.24

Pointing to an old man, Kailash said, "His son is my son's uncle." How is the old man related to Kailash?

Brother

Uncle

Father

Answer:
Father

Explanation:
Kailash's son's uncle ----Kailash's brother. So, the old man's son is Kailash's brother i.e, the old man is Kailash's father.

Grandfather

Qn.25
A can do a certain work in 12 days. B is 60% more efficient than A. How many days does B alone take to do the same job ?

A. 6 days

B. 7.5 days

Answer:
B. 7.5 days

Explanation:
Ratio of time taken by A & B = 160:100 = 8:5
Suppose B alone takes x days to do the job.
Then, 8:5::12:x
= > 8x = 5*12
= > x = 15/2 days.

C. 9 days

D. 6.3 days

Qn.26
Worker A takes 8 hours to do a job. Worker B takes 10 hours to do the same job. How long it take both A & B, working together but independently, to do the same job ?

A) 40/9 days

Answer:
A) 40/9 days

Explanation:
A's one hour work = 1/8. B's one hour work = 1/10. (A+B)'s one hour work = 1/8+1/10 = 9/40. Both A & B can finish the work in 40/9 days.

B) 45/11 days

C) 39/7 days

D) 45/9 days

Qn.27
If A takes x days to do a work then B takes 2x days to do the same work then with in how many day's A will alone complete this work ?

A. 28 days

B. 29 days

C. 30 days

D. 27 days

Answer:
D. 27 days

Explanation:
= > 1/x+1/2x = 1/18
= > 3/2x = 1/18

= > x = 27 days.
Hence, A alone can finish the work in 27 days.

Qn.28

If "football" is "cricket" ,"cricket" is "basketball" ,"basketball" is "volleyball","volleyball" is "khokho" and "khokho" is cricket, which is not a ball game ?

✓ A. cricket

B. football

C. khokho

D. basketball

Qn.29

Here are some words translated from an artificial language. daftafoni means advisement imodafta means misadvise imolokti means misconduct Which word could mean "statement"?

kratafoni

✓ **Answer:**
kratafoni

Explanation:
Dafta means advise; foni is the same as the suffix 'ment'; imo is the same as the prefix 'mis'; lokti means conduct. Since the only word in the answer choices that hasn't been defined is krata, it is reasonable to assume that krata means state. Therefore, kratafoni is the only choice that could mean statement.

kratadafta

loktifoni

daftaimo

Qn.30

Technical Section

Which of the command is used to remove files in Unix ?

A. erase

✓ B. rm

C. delete

D. dm

Qn.31

Which command is used to copy the three files wb, collect and mon into the misc directory, under the same, when you were currently in the programs directory ?

A. copy wb collect mon/misc

✓ B. cp wb collect mon ../misc

C. copy wb ../misc collect ../misc mon ../misc

D. tar wb collect mon/misc

Qn.32

```
main()
{
extern int i;
i=20;
printf("%d",sizeof(i));
}
```

A . Compiler error

B . 20

C. 21

D. Linker error

Answer:

D. Linker error

Explanation:

Linker error: undefined symbol '_i'.

Explanation: extern storage class in the following declaration,

extern int i;

specifies to the compiler that the memory for i is allocated in some other program and that address will be given to the current program at the time of linking. But linker finds that no other variable of name i is available in any other program with memory space allocated for it. Hence a link error has occurred.

Qn.33

When n+l has the same value for two or more orbitals,the new electron enters the orbital where

A. n is maximum

B. n is minimum

C. l is maximum

D l is minimum

Qn.34

Pure water does not conduct electricity because it is

A . Almost not ionized

B Low boiling

C. Neutral

D. Readily decomposed

Qn.35

Identify two level logic gate ?

A. NAND

B. XOR

C .INVERTER

D. AND

Qn.36

TCP/IP Protocol is _____.

A. connectionless

B. connection oriented

C. Both A& B

D .none

Qn.37

#include<stdio.h>

```
main()
{
struct xx
{
int x=3;
char name[]="hello";
};
struct xx *s;
printf("%d",s->x);
printf("%s",s->name);
}
```

A. Compiler Error

Answer:
A. Compiler Error
Explanation:
You should not initialize variables in declaration.

B. hello

C. Hello hello

D. None

Qn.38
Using ODL, you can define which of the following ?

A. Attribute

B. Structure

C. Operation

D. All of the above.

Qn.39
When an entity instance must be a member of only one subtype, it is which of the following ?

A. Disjoint with total specialization

B. Disjoint with partial specialization

C. Overlap with total specialization

D. Overlap with partial specialization

Qn.40
You want subclasses in any package to have access to members of a superclass. Which is the most restrictive access that accomplishes this objective ?

A. public

B. private

C. protected

Answer:
C. protected
Explanation:
Access modifiers dictate which classes, not which instances, may access features.
Methods and variables are collectively known as members. Method and variable members are given access control in exactly the same way.
private makes a member accessible only from within its own class
protected makes a member accessible only to classes in the same package or subclass of the class
default access is very similar to protected (make sure you spot the difference) default access makes a member accessible only to classes in the same package.
public means that all other classes regardless of the package that they belong to, can access the member (assuming the class itself is visible)
final makes it impossible to extend a class, when applied to a method it prevents a method from being overridden in a subclass, when applied to a variable it makes it impossible to reinitialise a variable once it has been initialised

abstract declares a method that has not been implemented.

transient indicates that a variable is not part of the persistent state of an object.

volatile indicates that a thread must reconcile its working copy of the field with the master copy every time it accesses the variable.

After examining the above it should be obvious that the access modifier that provides the most restrictions for methods to be accessed from the subclasses of the class from another package is C - **protected.** A is also a contender but C is more restrictive, B would be the answer if the constraint was the "same package" instead of "any package" in other words the subclasses clause in the question eliminates default.

D. transient

Qn.41

Specify the 2 library functions to dynamically allocate memory?

A. malloc() and memalloc()

B. alloc() and memalloc()

✓ C. malloc() and calloc()

D. memalloc() and faralloc()

Qn.42

The library function used to reverse a string is _____.

A. strstr()

B. strrev()

Answer:

B. strrev()

Explanation:

strrev(s) Reverses all characters in s

✓ Example:

#include <string.h>
#include <stdio.h> int main(void){ char *str = "India"; printf("Before strrev(): %s\n", str); strrev(str); printf("After strrev(): %s\n", str); return 0;}Output:

Before strrev(): India

After strrev(): aidnI

C. revstr()

D. strreverse()

Qn.43

The memory address of the first element of an array is called

A . floor address

B . foundation address

C . first address

✓ D. base address

Qn.44

A data structure where elements can be added or removed at either end but not in the middle is _____.

A. Linked lists

✗ B.Stacks

C. Queues

✓ D. Deque

Qn.45
In Ms-Dos what command you will use to display system date ?

    A. Date command

    Answer:

    A. Date command

    Explanation:

    Ver command displays the version number of Dos. There is no command as Disk. Format command prepares a disk to be used with DOS. Thus Date is the command that lets you to display and/or change the system date.

    B. Ver command

    C. Disk command

    D. Format command

Qn.46
If you don't know the current time, which command will you use to display ?

    A Copy

    B. Verify

    C. 2(3/4) Time

    Answer:

    C. 2(3/4) Time

    Explanation:

    Explanation: Time command displays and allows you to change system time. TIME only displays the system time and TIME <time> is used to set new time as system time.

    D. Format

Qn.47
Which bitwise operator is suitable for turning on a particular bit in a number?

    A. && operator

    B . & operator

    C. || operator

    D. | operator

Qn.48
Which command is used to list out all the hidden files along with the other files ?

    A. Is-1

    B. Is-F

    C. Is-x

    D. Is-a

Qn.49

Which of the following diagrams indicates the best relation between Tall man, Black haired people and Indians ?

A.

B.

C.

D.

A

Answer:

A

Explanation:

✔

B

C

D.D

Qn.50

```
#define DIM( array, type) sizeof(array)/sizeof(type)
main()
{
int arr[10];
printf("The dimension of the array is %d", DIM(arr, int));
}
```

A. 10

Answer:

✔ A. 10

Explanation:

The size of integer array of 10 elements is 10 * sizeof(int). The macro expands to sizeof(arr)/sizeof(int) => 10 * sizeof(int) / sizeof(int) => 10.

B. 9

C. 11

✘ D. Compiler error

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