• No. of Sections: 4

• No. of Questions: 82

• Total Duration: 105 min

Section 1 - Quantitative aptitude

Section	Summary
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• No. of Questions: 25

• Duration: 25 min

Λdd	litiona	d Ind	etru	stions	
AUU		41 1113	SILLIC	:110)119	Š.

None

Q1. Product of 2 odd numbers is:



Always odd

Always even

Sometimes Odd & Sometimes even

Divisible by 6.

Q2. A number when divided by 5 leaves a reminder 2, when the square of the number is divided by 5 the remainder will be:

4

2

1

3

Q3. What is the value of $(a^3)^5 / (a^2)^4$

7a

 a^7

a⁻⁷

None of the above

Q4. $7a+4 \times 5b = 1715$, then ab=

	0
	2
	-1
	4
Q5.	The ascending order of rational numbers -7/10,-5/8,-2/3 is:
	-7/10,-2/3,-5/8
	-7/10,-5/8,-2/3
	-5/8,-7/10,-2/3
	-2/3,-5/8,-7/10
Q6.	Number 1is a
	Prime number
	Composite number
	Positive integer
	Both a & c
Q7.	If $2^{2n-1} = (1/8^{n-3})$ then the value of n is
	3
	2
	0
	-2
Q8.	What should be multiplied by 2880 to make it a perfect square?

	3	
	5	
	7	
Q9.	What is the least number which should be added to 0.0282 to make it a perfect squ	are?
	.0007	
	.0042	
	.0002	
	.0003	
Q10.	Steward assigns 1/8 th of his monthly salary for food. Steward?s total food bill for r salary?	month is Rs.6500. What is Steward?s yearly
	Rs.9750	
	Rs.12174	
	Rs.5,76,000	
	Rs.6,24,000	
Q11.	A juice container was 4/5 full. Ravinder poured 4 glasses from it and then poured to How many glasses can be filled if the entire container is emptied?	vo glasses back. The container now is 3/4 full.
	32	
	36	
	44	
	40	
Q12.	A bread making machine can make bread of 50 kg dough in 3 mins. How many suck kg dough in 6 mins?	h machines are required to make bread of 300
	6	
	3	

4	
5	
Sumithra put five grams of seeds in a bird feeder on Sunday.On Wednesday half of to On Friday she found half were eaten.How many grams were eaten in that week?	the seeds were eaten,so she put 3 more grams.
3 g	
2.5 g	
2.75 g	
5.25 g	
$x^4y - xy^4 =$	
$xy(x-y)(x^2+xy+y^2)$	
$xy(x+y)(x^2-xy+y^4)$	
$x (xy-1)(x^2-xy+y)$	
$(x^3 + y^2) xy$	
None of the above	
106. What is the remainder if 825 is divided by 7?	
25	
8	
1	
0	
A bag contains coins of 1 rupee, 2 rupees, 5 rupees in the ratio 4:8:5. The total amount	unt is Rs.90. The number of 5 rupee coins is?
8	
16	
10	

Q13.

Q14.

Q15.

Q16.

15	
10	
Which of the following is true for the value of 0.999?.?	
It is equal to 1	
It is less than 1	
It is equal to 0.9	
None of the above	
An investment earns 4 paise per rupee invested. If at the end of the year the interest investment is equal to:	earned by an investment is Rs.100, then the
2000	
2200	
1000	
2500	
4000	
The sum of the digits of a three digit number is subtracted from the number. The res	ulting number is divisible by
6	
9	
Both 6 & 9	
All 3, 6 and 9	
What is the difference between the LCM and HCF of numbers 20, 30 and 40?	
100	
110	

Q17.

Q18.

Q19.

Q20.

120

	130	
Q21.	What sum of money will accumulate Rs. 5300 at 8% interest in 9 months?	
	5000	
	5400	
	4500	
	4000	
Q22.	A bank advertises that you can double the money if you invest it with them for 8 ye	ars, what is the rate of Interest offered by them?
	12.50%	
	10%	
	8.50%	
	14%	
Q23.	Mumbai Rajdhani express takes 16 hrs to reach Mumbai from Delhi,while Swaraj e of their speeds is?	xpress takes 20 hrs to reach Mumbai.The ratio
	1:4	
	4:5	
	5:4	
	3:2	
Q24.	Ram and Ravi were playing with a paper phone, frustums of which are attached to moving in opposite directions at 18m/min and 20m/min respectively, after how ma	each other by a 95m long string. If both start any more mins both have to stop?
	2 mins	
	2.5mins	
	3mins	
	3.5mins	

An Aeroplane flies along the sides of an equilateral triangle with the speeds of 300km/hr, 200km/hr and 240 km/hr. The average speed of the plane while flying along the triangle is?

	250 km/hr	
	275 km/hr	
	200 km/hr	
	240 km/hr	
	Section 2 - Verbal Ability	
	Summary uestions: 25 25 min	
Addit i None	ional Instructions:	
Q1.	Choose the word which best suits the highlighted word. Birds are quarantined to pro-	event the spread of bird flu.
	Immunized	
	Butchered	
	Secluded	
	Mingled	
Q2.	(A) cellular mobility for rural women may be at (B) a nascent stage in india,but those brought them.	e who have it(c) sweared by the freedom it has
	(A)	
	(B)	
	(C)	
	No error	
Q3.	All the efforts of the batsman wentvain as the bowlers failed to perfo	orm well.
	IN	

	AND	
	FOR	
	OFF	
Q4.	Give the opposite : STARTLED	
	amused	
	relaxed	
	endless	
	astonished	
Q5.	In the question each passage consists of six sentences. The first and the sixth sent are jumbled up and assigned labels: P,Q,R & S. 1st: Politeness is not a quality poss case, we should not mock at others habits. P: One may observe that a man of one way of greetings when he meets someone he knows. Q: A man of another country warning all peoples and nations in every corner of the earth. S: Obviously each person	essed by only one nation or race. 6th: In any nation will remove his hat or fold his hands by vill not do so. R: It is a quality to be found
	RPQS	
	RPSQ	
	PRQS	
	QPRS	
Q6.	This question a part of the sentance is italicised. Alternative to the italicised part of Markets like Janpath and Connaught Place have a lots of shops selling very trendy	
	? Have lots of shops selling.	
	? Have lot many number of shops selling.	
	? Have a lot number of shops that were selling	
	? No improvement needed	
Q7.	In this question a part of the sentance is italicised. Alternative to the italicised part of alternative But which director from Bollywood would remake this film, will be made s	

is being kept a secret

	is being secret	
	can be secret	
	will be kept the secret	
Q8.	(A) Guilt and self pleasure are (B)two most strong drivers (C) of any act.	
	A	
	В	
	C	
	No error	
Q9.	Read the sentence to find out whether there is any grammatical error in it. The error letter of that part is the answer. Ignore the error of punctuation, if any. (A) Yauhan d as(C)he never had to earn himself	, if any, will be in one part of the sentence. The o not understand(B)the importance of money
	A	
	В	
	С	
	No error	
Q10.	Arrange the fragments A,B,C,D,E and F in order to form a meaningful sentence. A)di E)promises are F)friends let you down	sappointed if B)not fulfilled C)do not be D)or
	CFDAEB	
	CABDEF	
	CAFDBE	
	CAFDEB	
	CBAEDF	
Q11.	What were the servants dogs when the robbery places	
ı		

Take

	Took	
	Was in	
	Were in	
Q12.	In this question, a pair of the sentence is italicized. Alternatives to the italicized part of the sentence. Select the correct alternative. What have we got for dinner?	are given which may improve the construction
	We got for the dinner	
	We got for a dinner	
	We gotten for dinner	
	No change	
Q13.	The note book used by Ever green society are made by recycled paper.	
	a	
	an	
	the	
	all	
Q14.	We as human being get easily by materialistic pleasures of modern age	
	Distracted	
	Attentive	
	Devoted	
	Diligent	
Q15.	Read the sentence to find out whether there is any grammatical error in it. The error letter of that part is the answer. Ignore the error of punctuation, if any. (A)A tie is a vevery men.	if any, will be in one part of the sentence. The ery important(B)part of formal dressing(C)for
	A	
	В	

	No change	
Q16.	Improve the sentence by selecting the correct alternative to the italicized part of the sentence. As per the weather pre- rain heavily for the next one week.	ediction, it will
	observation	
	report	
	forecast	
	news	
Q17.	Select the word or phrase which best expresses the meaning of the given word. VANISH	
	evacuate	
	decrease	
	disappear	
	none	
Q18.	Select the word or phrase which best expresses the meaning of the given word. PRIMAL	
	approved	
	cardinal	
	precise	
	permanent	
Q19.	Select the option that is most nearly OPPOSITE in meaning to the given word. TORTURE	
	friendly	
	aid	
	generous	
	none	

С

Γ		
	Despite	
	Although	
	since	
	however	
Q21.	Synonym: Sterilize	
	Freshen	
	potent	
	Mitigate	
	disinfect	
Q22.	in the question a part of the sentence is italicized. Alternatives to the italicized part of the sentences select the alternative. The appropriate atmospheric conditions mastars and they could even distinguish the sizes.	
	And even distinguish the sizes	
	And they were even	
	And he could even distinguish the sizes.	
	And even distinguishing the sizes	
Q23.	The Unique Iron Age Experimental Centre at Lajire, about 40km west of Copenhagen to get away from it all. How did people live during the Iron Age? How did they support they cultivate the land? These and myriad of other question prodded the pioneers of working 10 hours a day, volunteers from all over Scandinavia led by 30 experts, built matter of months. The house walls were of clay, the roofs of hay-all based on original back to the basics of living. Families were invited to stay in the 'prehistoric village' for style Initially, this experiment proved none too easy for modern Danes accustomed that there was something to the Lejre project. Little by little, the modern iron Agers le problems were numeouus-smoke belching out from the rough-and-ready fireplaces problems, however, have led to some discoveries: domed smoke ovens made of clay; less fuel than an open fire, and when correctly stoked, they are practically smokeless has been able to reconstruct ancient weaving looms and pottery kilns. Iron Age dye vegetation, have also been revived, as have ancient banking and cooking methods What is the purpose of building the Iron Age experimental center?	t themselves/What did they eat and how did the Legree experiment Living in the open and the first in the anti cent encampment in a al design. Then came the second stage-getting or a week or two at a tome and rough it Iron Age- to central heating, but it convinced the central earnt that their huts were, after all, habitable. The into the rooms and so on. These for examples give out more heat and consume By contacting other museums, the Legree team

____ being poor, kaveri still dresses more appropriately than most of her group mates.

Q20.

Prehistoric Village where people can stay for a week or two to get away from modern living

To discover the difference between a doomed smoke oven and an open fire to identify the more efficient of the two Revive activities of ancient women such as weaving, pottery, dyeing, cooking and baking Q24. The Unique Iron Age Experimental Center at Legree about 40km west of Copenhagen serves as a museum, a classroom and a place to get away from it all. How did people live during the Iron Age? How did they support themselves/What did they eat and how did they cultivate the land? These and myriad of other question prodded the pioneers of the Legree experiment Living in the open and working 10 hours a day, volunteers from all over Scandinavia led by 30 experts, built the first in the anti cent encampment in a matter of months. The house walls were of clay, the roofs of hay -all based on original design. Then came the second stage-getting back to the basics of living. Families were invited to stay in the 'prehistoric village' for a week or two at a tome and rough it Iron Agestyle Initially, this experiment proved none too easy for modern Danes accustomed to central heating, but it convinced the central that there was something to the Lejre project. Little by little, the modern iron Ayers learnt that their huts were, after all, habitable. The problems were numerous-smoke belching out from the rough-and-ready fireplaces into the rooms and so on. These problems, however, have led to some discoveries: domed smoke ovens made of clay, for examples give out more heat and consume less fuel than an open fire, and when correctly stoked, they are practically smokeless By contacting other museums, the Legree team has been able to reconstruct ancient weaving looms and pottery kilns. Iron Age dyeing techniques, using local natural vegetation, have also been revived, as have ancient banking and cooking methods What is the meaning of the sentence 'initially, this experiment proved none too easy for modern Danes accustomed to central heating, but it convinced the center that there was something to the Legree project'? Even though staying in thr hunts wasn't easy for the modern people the centre saw merit in the simple living within huts compared to expensive apartments Staying in the hunts was guite easy for the modern people and the centre also saw merits in the simple living within hunts compared to to expensive apartments The way of living of the Iron Age proved difficult for the people of the modern age who are used to living in luxury The way of living of the Iron Age proved very easy for the people of the modern age since it was not inside the hunts, and they were anyway used to heated rooms Q25. AFFABLE(opposite) rude ruby needy

Replicate the Iron Age to get a better understanding of the time and people of

the ers

Section 3 - Reasoning Ability

Section Summary

- No. of Questions: 25
- Duration: 25 min

useless

Q1.	X walks 6 km towards East from point A and from the same point A, Y walks 8 km So other now?	outh. How far are the two friends from each
	14 km	
	2 km	
	10 km	
	5 km	
Q2.	Odd man out	
	PSRQ	
	MNPO	
	SVUT	
	KNML	
Q3.	Odd Man Out	
	ABIJ	
	DEHI	
	MNQR	
	STWX	
Q4.	Given signs signify something and on that basis, assume the given statements to be and II is/are definitely true. ?%? denotes ? greater than? ?>? denotes ? equal to? ?=? of equal to? ?#? denotes ?less than? ?*? denotes ?not greater than? Statements : p > s,	denotes ?not less than? ?@? denotes ?not
	only conclusion 1 is true	
	only conclusion 2 is true	
	neither conclusion 1 nor 2 is true	
	both conclusion 1 and 2 are true	

	FJN	
	HLO	
	CGK	
	KOS	
Q6.	If ?Apples are red? is coded as 541, ?My eye swollen? is coded as 927, fear of dark? my eye? stand for?	is coded as 368, them what does ?Apples of
	5692	
	5690	
	5962	
	5672	
Q7.	If EXAM is coded as FYBN, then TEST is coded as	
	NBYF	
	UFTU	
	SFTS	
	SFRS	
Q8.	865:532::976:	
	651	
	642	
	521	
	643	
Q9.	CEGI:JLNP :: QSUW:	

	WCMS	
	SXBD	
	XZBD	
	UZDH	
Q10.	Who is the nephew of X? Statements: i. Y is sister of X ii. Z is son of Y	
	Statement I alone is sufficient to answering the problem question.	
	Statement II alone is sufficient to answering the problem question	
	Both statements put together are sufficient in answering the problem question.	
	Both the statements even put together are not sufficient in answering the problem question	
	Either of the statements is sufficient in answering the problem question.	
Q11.	What is the Mohan's rank in the class? Statements: i. There are 30 students in the class Mohan.	ass ii. There are 6 girls who have scored less
	Statement I alone is sufficient to answering the problem question.	
	Statement II alone is sufficient to answering the problem question.	
	Both statements put together are sufficient in answering the problem question.	
	Both the statements even put together are not sufficient in answering the problem question	
	Either of the statements is sufficient in answering the problem question.	
Q12.	Based on the given passage find out which of the following statements can be infer encourages its mangers to interact regularly, without preset agenda to discuss issu This idea has been borrowed from the ancient Indian concept of religious congrega during these meetings, hence it is not uncommon in these meetings to find a manage Director on some corporate policy or his knowledge of customers.	es concerning the company and the society. tion, called satsang. Designations are forgotten
	The company is concerned about its reputation with its employees	
	The company believes in fostering the spirit of dialogue without degenerating it into a positioning based debate	

	The company had some inter personal problem in the past due to which it felt the need for these corporate satsangs	
	All of these above	
Q13.	How many sisters does Mamta have? Statements: i. Mamta does not have any brot	her ii. Mamta's mother have 4 daughter
	Statement I alone is sufficient to answering the problem question.	
	Statement II alone is sufficient to answering the problem question.	
	Both statements put together are sufficient in answering the problem question.	
	Both the statements even put together are not sufficient in answering the problem question	
	Either of the statements is sufficient in answering the problem question.	
Q14.	Select the right option from the given alternatives Seema told Sanjiv, "The girl I met yesterday at the beach was the youngest daught How is the girl related to Seema's friend?	er of the brother-in-law of my friend's mother."
	Niece	
	Friend	
	Aunt	
	Cousin	
Q15.	If A # B means A is father of B; A \$ B means A is mother of B, A @ B means A is sist of B, then how is B related to X in X \$ K # A @ B?	er
	Grandson	
	Grand-daughter	
	Nephew	
	Data Inadequate	
Q16.	Select the right option from the given alternatives Pointing to a girl, Arvind said "She is daughter of the only child of my father," How is	Arvind's wife related to that girl?
	Daughter	

Mother

	Aunt	
	Sister	
	None of these	
Q17.	If 'A x D' means 'A is the sister of D', 'A + D' means 'D is the daughter of A' and 'A \div d' the aunt of M' be denoted?	means 'A is the mother of D', then how will 'N is
	M + L XN	
	M÷L+N	
	L X N÷M	
	N X L ÷ M	
Q18.	Pointing to a man, a lady said, "he is the son of my husband's daughter". How is the	man related to this lady?
	Grandson	
	son	
	daughter	
	none of these	
Q19.	Pointing to a girl, Mihir said, "She is the only daughter of mygrandfather's only child."	How is the girl related to Mihir?
	Daughter	
	Niece	
	Sister	
	Data in adequate	
Q20.	Pointing out to a photograph, Swati said, "he is the uncle of mybrother's sister". How	is the person in photograph related to Swati?
	uncle	
	father-in-law	
	brother	
	Grandfather	

	M – N + P	
	M + N - P	
	M * N + P	
	M – P * N	
Q22.	In a joint family, there are father, mother, 3 married sons and one unmarried daught one has a son. How many female members are there in the family?	er. Of the sons, two have 2 daughters each
	2	
	3	
	6	
	7	
	9	
23.	Pointing to a photograph, a lady said, "he is the brother of my husband's father's so	n". How is the man related to the lady?
	brother-in-law	
	brother	
	uncle	
	nephew	
24.	Read the following information carefully to answer the question:P X Q mean "P is s	ster of Q"
	P ÷ Q means "P is mother of Q"P + Q means "P is brother of Q"P - Q means "p is fat Which of the following represent W is grandfather of H?	ner of Q"
	W + T -H	
	W÷T-H	
	W * T+H	
	W÷T+H	1
	None of these	

A + B means A is the brother of B; A - B means A is the wife of B; and A * B means A is the mother of B. which of the following means M is the brother-in-law of P?

Q21.

S is grandmother of N

S is greater grandmother of N

S is mother of V

None of these

Read the following information carefully to answer the question:

P * Q mean "P is sister of Q" $P \div Q$ means "P is mother of Q" P + Q means "P is brother of Q" P - Q means "p is father of Q"

The expression means "S \div T - H * V - N"?

Section 4 - Automata Fix

Section Summary

- No. of Questions: 7
- Duration: 30 min

Q25.

Additional Instructions:

None

Q1. The method **countElement(int arr[],int n)** of class ElementCount is supposed to return the number of elements in the input array arr which are greater than twice the input number n . find the logical error in the function **countElement(int arr[], int n)** and fix it

```
#include<stdio.h>
int countElement(int arr[],int ele,int len)
{
int count=0;
  for(int i=0;i<len;i++)</pre>
    if(arr[i]>ele)
      count++;
  return count;
int main()
{
  int n;
  scanf("%d",&n);
  int arr[n];
  for(int i=0;i<n;i++)</pre>
    scanf("%d ",&arr[i]);
  }
  int val;
  scanf("%d",&val);
  printf("%d",countElement(arr,val,n));
```

Sample Input

Sample Output

```
5
1 2 3 4 5
2
```

Time Limit: 2 ms Memory Limit: 256 kb Code Size: 256 kb

Q2. The function **matrixsum(int *matrix,int row,int col)** is supposed to return the sum of elements of the input array matrix having number of rows and **col** number of columns. complete the function/method **matrixsum(int* matrix, int row, int col)** to get the

desired output.

Sample Input

Sample Output

3 3	45
1 2 3 4 5 6 7 8 0	
4 5 6	
7 0 0	

Time Limit: 2 ms Memory Limit: 256 kb Code Size: 256 kb

Q3. The function **matrixsum(int **matrix,int m,int n)** is supposed to return the sum of elements of the input array matrix having m rows and n columns. The logic is provided. But it is not giving the desired output due to a logical error. Find the logical error and fix it.

Program:

```
#include<stdio.h>
#define SIZE 100
int matrixsum(int row,int col)
{
   int sum=0;
   int arr[row][col];
   for(int i=0;i<row;i++){</pre>
   for(int j=0;j<col;j++)</pre>
       scanf("%d",&arr[i][j]);
   for(int i=0;i<col;i++){</pre>
       for(int j=0;j<i;j++){</pre>
            sum=sum+arr[i][j];
       }
   }
   return sum;
int main()
   int m,n;
   scanf("%d %d",&m,&n);
   printf("%d",matrixsum(m,n));
}
```

Sample Input

Sample Output

```
3 3
1 2 3
4 5 6
7 8 9
```

Time Limit: 2 ms Memory Limit: 256 kb Code Size: 256 kb

Q4. Generate all the prime numbers below a given **N**

Sample Input

Sample Output



Time Limit: 2 ms Memory Limit: 256 kb Code Size: 256 kb

Q5. The function **pyramid(int n)** is a function that will print a reverse character pyramid pattern like the below one. Find the logical error to get the desired output

Input:

5

Output:

ABCDEFGHIJ ABCDEFGH ABCDEF ABCD



```
AB
```

```
#include<stdio.h>
void pyramid(int n)
  int i, j, num, gap;
  for (i = n; i >= 1; i--) {
     for (gap = n - 1; gap >= 1; gap--) {
       printf(" ");
       printf(" ");
     num = 'A';
     for (j = 1; j \le i; j++) {
printf("%c",num++);
     for (j = i - 1; j >= 0; j--) {
       printf("%c",num++);
     printf("\n");
int main()
  int n;
scanf("%d",&n);
  pyramid(n);
  return 0;
```

Sample Input

Sample Output

```
ABCDEFGHIJ
ABCDEFGH
ABCDEF
```

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q6. 1. The method **removeElement(int arr[],int element)** of class **ShortArray** takes an array arr as an input.It is supposed to return an array removing the integer if it is present in the input array arr. If the given integer is not in the array, then this function should return the input array arr.

The function compiles successfully but fails to return the desired result due to logical erros

Your task is to debug the program to pass all the test cases

Assumptions

The input index is always a non negative integer. Zero based indexing is followed to access array elements.

Test case 1:

Input:

[1,2,3,4,5,6,7,8,9],3

Expected return value:

[1,2,3,5,6,7,8,9]

Test case 2:

Input:

[11,23,12,34,54,32],6

Expcted return value:

[11,23,12,34,54,32]

PROGRAM:

```
public class ShortArray{
public static int[] removeElement(int arr[],int n,int x){
  if (arr[n-1] == x)
  return (n-1);
  int prev = arr[n-1], i;
  for (i=n-2; i>=0 && arr[i]!=x; i--)
  {
   int curr = arr[i];
   arr[i] = prev;
  prev = curr;
}
```

```
if (i < 0)
return 0;
arr[i] = prev;
return (n-1); }
}</pre>
```

Sample Input

Sample Output

```
5
1 2 3 4 5
3
```

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q7. Below is the Pyramid pattern . Entire snippet is provided and there exist one logical error in a single line . Find the line and rectify it. Take the below snippet as a reference

```
input:
5
output:
#include<stdio.h>
int PatternPyramid(int rows)
{
  int i,space,k=0;
  for(i=1; i<=rows; ++i, k=0)</pre>
    for(space=1; space<=rows; ++space)</pre>
    {
      printf(" ");
    while(k != 2*i-1)
      printf("* ");
      k++;
    printf("\n");
  }
}
int main()
    int rows;
    scanf("%d",&rows);
    PatternPyramid(rows);
    return 0;
}
```

Sample Input

Sample Output

Time Limit: 50 ms Memory Limit: 256 kb Code Size: 256 kb

		Answer Key & Solution	
01	Section 1 - Quantitative aptitude		
Q1	Always even		
	Solution		
Q2	4		
	·		
	Solution		
Q3			
QU	a ⁷		
	Solution		
	Nil		
Q4	-1		
	Solution		
	Nil		
Q5	7/10 0/2 5/0		
	-7/10,-2/3,-5/8		
	Solution		
06			
Q6	Positive integer		
	Solution		
Q7	2		

Solution

Q8 5

Solution

Q9 .0007

Solution

Q10 Rs.6,24,000

Solution

Nil

Q11 40

Solution

Q12

Solution

4

Nil

Q13 5.25 g

Solution

Q14

 $xy(x-y)(x^2+xy+y^2)$

Nil Q15 1 Solution Q16 10 Solution Nil Q17 It is less than 1 **Solution** Q18 2500 Solution Nil Q19 9 **Solution** Q20 110 Solution

Solution

Q21 5000 Solution Nil Q22 12.50% Solution Nil Q23 5:4 Solution Nil Q24 2.5mins Solution Nil Q25 240 km/hr Solution Nil **Section 2 - Verbal Ability** Q1 Secluded Solution Q2 (B) Solution

Q3 IN Solution NIL Q4 relaxed Solution Q5 **RPQS** Solution NIL Q6 ? Have lots of shops selling. Solution Q7 is being kept a secret **Solution** Q8 В Solution Nil

Q9

Α

	Solution	
	Nil	
Q10	CAFDEB	
	Solution	
Q11	Took	
	Solution	
Q12	We got for the dinner	
	Solution	
Q13	an	
	Solution	
	Nil	
Q14	Distracted	
	Solution	
Q15	C	
	Solution	

Q16 forecast Solution Q17 disappear Solution Q18 cardinal Solution Q19 friendly Solution Q20 Despite Solution Q21 disinfect Solution NILQ22 And they were even Solution

Q23	Replicate the Iron Age to get a better understanding of the time and people of the ers
	Solution
	Option 2 is the correct answer.Last paragraph in the passage tells that iron age techniques and natural vegetation is revived.
Q24	Staying in the hunts was quite easy for the modern people and the centre also saw merits in the simple living within hunts compared to to
	expensive apartments
	Solution
005	
Q25	rude
	Solution
	(opposite)
	Continu 2. December Ability
Q1	Section 3 - Reasoning Ability 10 km
	Solution
	Nil
Q2	MNPO
	Solution
	Nil
Q3	ABIJ
	Solution
	Nil
Q4	only conclusion 2 is true

	Solution	
	Nil	
Q5	CGK	
	Solution	
	Nil	
Q6		
QU	5692	
	Solution	
	Nil	
Q7	UFTU	
	Solution	
	Nil	
Q8	643	
	Solution	
	Nil	
Q9	XZBD	
	Solution	
	Nil	
Q10	Both statements put together are sufficient in answering the problem question.	
	Solution	
	Nil	

Q11	Both the statements even put together are not sufficient in answering the problem question	
	Solution	
	Nil	
Q12	All of these above	
	Solution	
	Nil	
Q13	Statement II alone is sufficient to answering the problem question.	
	Solution	
	Nil	
Q14		
Q14	Cousin	
	Solution	
	No Solution	
Q15	Data Inadequate	
	Solution	
	No Solution	
Q16	Mother	
	Solution	
	No Solution	
Q17	$N \times L \div M$	
	Solution	
	No Solution	
Q18	Grandson	
	Solution	

No Solution Q19 Sister Solution No Solution Q20 uncle **Solution** No Solution Q21 M + N - P**Solution** No Solution Q22 9 **Solution** No Solution Q23 brother-in-law **Solution** No Solution Q24 None of these **Solution** No Solution Q25 S is greater grandmother of N Solution No Solution **Section 4 - Automata Fix** Q1 **Test Case** Input Output

10 11 12 13 14 15 16 17 18 19 20 8

Weightage - 50

Input Output

```
6
12 12 13 14 23
6
```

Weightage - 50

Sample Input Sample Output

```
5
1 2 3 4 5
2
```

Solution

Header

```
#include<stdio.h>
int countElement(int arr[],int ele,int len)
{
    int count=0;
    for(int i=0;i<len;i++)
    {
        if(arr[i]>2*ele)
        {
            count++;
        }
    }
    return count;
```

Footer

```
int main()
{
    int n;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)
    {
        scanf("%d ",&arr[i]);
    }
    int val;
    scanf("%d",&val);
    printf("%d",countElement(arr,val,n));
}
</pre>
```

Q2

Test Case

Input Output

```
2 2
1 4
6 8
```

Weightage - 25

Input Output

```
5 5
1 2 3 67 67
90 87 65 43 21
1 2 3 4 5
```

Weightage - 75

Sample Input

```
3 3
1 2 3
4 5 6
7 8 0
```

Sample Output

Solution

Header

```
#include<stdio.h>
#include<stdlib.h>
#define SIZE 100
int matrixsum(int* arr,int row,int col)
{

   int sum=0;
   for (int i = 0; i < row; i++)
      for (int j = 0; j < col; j++)
      sum=sum+ *(arr + i*col + j);
   return sum;</pre>
```

Footer

```
int main()
{
    int row,col;
    scanf("%d %d",&row,&col);
    int *arr = (int *)malloc(row * col * sizeof(int));
    int i, j, count = 0;
    for (i = 0; i <row; i++)
        for (j = 0; j<col; j++)
            scanf("%d",(arr + i*col + j));

    printf("%d",matrixsum(arr,row,col));
}
</pre>
```

Q3 Test Case

Input Output

```
2
1 4
6 8
```

Weightage - 25

Input Output

```
5 5
1 2 3 67 67
90 87 65 43 21
1 2 3 4 5
```

Weightage - 75

Sample Input

Sample Output

```
3 3
1 2 3
4 5 6
7 8 0
```

Solution

Header

Footer

```
}
int main()
{
    int m,n;
    scanf("%d %d",&m,&n);

    printf("%d",matrixsum(m,n));
}
```

Test Case

Input Output

```
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59
```

Weightage - 25

Input Output

```
100000 2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59
```

Weightage - 50

Input Output

```
1000000 2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59
```

Weightage - 25

Sample Input Sample Output

```
2 3 5 7 11 13 17 19 23 29
```

Solution

Header

```
#include<stdio.h>
#include<math.h>
int main(){
    int n;
    scanf("%d",&n);
#include<stdio.h>
#include<math.h>
int main(){
    int n;
    scanf("%d",&n);
    int arr[n-1];
    int sqr=sqrt(n)+1;
    for(int i=0;i<n-1;i++){</pre>
        arr[i]=i+2;
  for(int i=0;arr[i]<=sqr;i++){</pre>
      if(arr[i]==0){
          continue;
      for(int j=i+arr[i];j<n-1;j+=(arr[i])){</pre>
          arr[j]=0;
      }
```

```
for(int i=0;i<n-1;i++){</pre>
       if(arr[i]!=0){
           printf("%d ",arr[i]);
       }
   }
   }
Footer
   }
Test Case
Input
                                                           Output
  6
                                                              ABCDEFGHIJKL
                                                                 ABCDEFGHIJ
                                                                    ABCDEFGH
                                                                       VBCDEE
Weightage - 50
                                                           Output
Input
  9
                                                              ABCDEFGHIJKLMNOPQR
                                                                 ABCDEFGHIJKLMNOP
                                                                    ABCDEFGHIJKLMN
                                                                       VBCDEECHTIKI
Weightage - 50
                                                           Sample Output
Sample Input
  5
                                                              ABCDEFGHIJ
                                                                 ABCDEFGH
                                                                    ABCDEF
                                                                       \Lambda D \subset D
Solution
Header
   #include<stdio.h>
   void pyramid(int n)
   {
       int i, j, num, gap;
       for (i = n; i >= 1; i--) {
           for (gap = n - 1; gap >= i; gap--) {
               printf(" ");
                printf(" ");
           }
           num = 'A';
           for (j = 1; j <= i; j++) {
                printf("%c",num++);
```

Q5

}

for (j = i - 1; j >= 0; j--) {
 printf("%c",num++);

```
}
printf("\n");
}
```

Footer

```
}
int main()
{
    int n;
    scanf("%d",&n);
    pyramid(n);
    return 0;
}
```

Q6 Test Case

Input Output

```
6
2 6 8 9 3 7
3
```

Weightage - 50

Input Output

```
5
1 8 7 6 9
9
```

Weightage - 50

Sample Input Sample Output

```
5
1 2 3 4 5
3
```

Solution

Header

```
#include<stdio.h>
int deleteElement(int arr[], int n, int x)
{

if (arr[n-1] == x)
    return (n-1);
int prev = arr[n-1], i;
for (i=n-2; i>=0 && arr[i]!=x; i--)
{
    int curr = arr[i];
    arr[i] = prev;
    prev = curr;
}
```

```
return 0;
   arr[i] = prev;
   return (n-1);
Footer
   int main()
   {
           int n;
           scanf("%d",&n);
       int arr[n];
           for(int i=0;i<n;i++){</pre>
                   scanf("%d ",&arr[i]);
           }
       int x;
           scanf("%d",&x);
       n = deleteElement(arr, n, x);
       for (int i=0; i<n; i++)
       printf("%d ",arr[i] );
       return 0;
   }
Test Case
                                                          Output
Input
  10
Weightage - 50
Input
                                                          Output
  7
Weightage - 25
                                                          Output
Input
  8
Weightage - 25
Sample Input
                                                          Sample Output
  5
```

if (i < 0)

Q7

Solution

Header

```
#include<stdio.h>
int PatternPyramid(int rows)
{
#include<stdio.h>
int PatternPyramid(int rows)
{
    int i,space,k=0;
    for(i=1; i<=rows; ++i, k=0)</pre>
        for(space=1; space<=rows-i; ++space)</pre>
            printf(" ");
        while(k != 2*i-1)
            printf("* ");
            ++k;
        printf("\n");
    }
}
int main()
    int rows;
    scanf("%d",&rows);
    PatternPyramid(rows);
    return 0;
}
```

Footer

```
}
int main()
{
    int rows;
    scanf("%d",&rows);
    PatternPyramid(rows);
    return 0;
}
```

