1. juice filled in a 24 litre bottle to be split equally into three parts using an 8 litre, 5 litre, 11 litre bottles.

Ans 1: split into 8L

fill 8L bottle from 24L bottle

pour contents on 8L bottle into 11L bottle

fill 8L bottle

now we have 8L in 24L,8L and 11L bottles

1. profit or loss if a horse is bought for 60 rs, sold for 70, again bought for 80, then sold for 90.
2. from c:-----

1.some basic programs from <http://cquestionbank.blogspot.com/>

2.basic question like difference between structure and union.

3.different types of pointer.

4.functions

5.call by value and call by reference.

6.recursion.

1. from c++  :----------

1.virtual function and pure virtual function

2.static variable and static methods.

3.inheritance.

4.overloading programs

5.types of constructors.

6.difference between c,c++ and java.

some programs

1. from java :--------------------------

note:-this is the java development based company.so they will ask alot of questions from

java.

you should be must well in java.

all basic questions from:

1.exception handling

2.string

3.collections

4.serialization

5.interface.

1. we have given two hour glass one of 11 minute and one of 7 minute. Then how  
   will we calculate the15 minute time.
2. [Zoho Puzzle Questions With Answers](http://markandayannotes.blogspot.com/2015/07/zoho-puzzle-questions-with-answers.html)
3. Measuring Time Logic Puzzle
4. You are given with two ropes with variable width. However if we start burning both the ropes, they will burn at exactly same time i.e. an hour. The ropes are non-homogeneous in nature. You are asked to measure 45 minutes by using these two ropes.  
     
   How can you do it?  
     
   Please note that you can’t break the rope in half as it is being clearly stated that the ropes are non-homogeneous in nature.
5. [**Answer & Explanation**](https://www.blogger.com/null)
6. **Solution:**
7. 45 minutes  
     
   Explanation :  
   All you have to do is burn the first rope from both the ends and the second rope from one end only simultaneously. The first rope will burn in 30 minutes (half of an hour since we burned from both sides) while the other rope would have burnt half. At this moment, light the second rope from the other end as well. Where, the second rope would have taken half an hour more to burn completely, it will take just 15 minutes as we have lit it from the other end too.  
     
   Thus you have successfully calculated 30+15 = 45 minutes with the help of the two given ropes.
8. [Popular Deductive Logic Problem](http://gpuzzles.com/mind-teasers/popular-deductive-logic-problem/)
9. Eight Brothers lives in an old house where there is no electricity and no computers or any any other gadget.  
     
   Brother-1: Reading Comics  
   Brother-2: Playing Chess  
   Brother-3: Writing  
   Brother-4: making food for the family  
   Brother-5: sleeping and snoring  
   Brother-6: cleaning house  
   Brother-7: watering the plants  
     
     
   what is Brother-8 doing ?
10. [**Answer & Explanation**](https://www.blogger.com/null)
11. **Solution:**
12. Playing chess  
      
    Game needs two players so Brother-8 is playing chess with Brother-2
13. [Knockout Matches Logical Problem](http://gpuzzles.com/mind-teasers/knockout-matches-logical-problem/)
14. Let us say that a table tennis tournament was going on with knock out terms which means the one who loses the match is out of the tournament. 100 players took part in that tournament.  
      
    How many matches were played?
15. [**Answer & Explanation**](https://www.blogger.com/null)
16. **Solution:**
17. 99 matches.  
      
    The number of matches will always sum up to one less than the number of players in a knock out tournament. You may calculate it in any manner. Thus 99 matches were played.
18. [Hard Logic Brain Teaser](http://gpuzzles.com/mind-teasers/hard-logic-brain-teaser/)
19. There are 100 doors. 100 strangers have been gathered in the adjacent room. The first one goes and opens every door. The second one goes and shuts down all the even numbered doors – second, fourth, sixth... and so on. The third one goes and reverses the current position of every third door (third, sixth, ninth… and so on.) i.e. if the door is open, he shuts it and if the door is shut, he switches opens it. All the 100 strangers progresses in the similar fashion.  
      
    After the last person has done what he wanted, which doors will be left open and which ones will be shut at the end?
20. [**Answer & Explanation**](https://www.blogger.com/null)
21. **Solution:**
22. Think deeply about the door number 56, people will visit it for every divisor it has. So 56 has 1 & 56, 2 & 28, 4 & 14, 7 & 8. So on pass 1, the 1st person will open the door; pass 2, 2nd one will close it; pass 4, open; pass 7, close; pass 8, open; pass 14, close; pass 28, open; pass 56, close.  
    Thus we can say that the door will just end up back in its original state for each pair of divisor. But what about the cases in which the pair of divisor has analogous number for example door number 16? 16 has the divisors 1 & 16, 2 & 8, 4&4. But 4 is recurrent because 16 is a perfect square, so you will only visit door number 16, on pass 1, 2, 4, 8 and 16… leaving it open at the end. So only perfect square doors will remain open at the end.
23. [3 Gallon Brain Teaser](http://gpuzzles.com/mind-teasers/3-gallon-brain-teaser/)
24. You have been given three jars of 3 liters, 5 liters and 8 liters capacity out of which the 8 liters jar is filled completely with water. Now you have to use these three jars to divide the water into two parts of 4 liters each.  
      
    How can you do it making the least amount of transfers?
25. [**Answer & Explanation**](https://www.blogger.com/null)
26. **Solution:**
27. 8 liters jar: 8; 5 liters jar: 0; 3 liters jar: 0  
    Fill 5 liters jar entirely.  
    8 liters jar: 3; 5 liters jar: 5; 3 liters jar: 0  
    Fill 3 liters jar with 5 liters jar.  
    8 liters jar: 3; 5 liters jar: 2; 3 liters jar: 3  
    Pour entirely from 3 liters jar to 8 liters jar.  
    8 liters jar: 6; 5 liters jar: 2; 3 liters jar: 0  
    Pour entirely from 5 liters jar to 3 liters jar.  
    8 liters jar: 6; 5 liters jar: 0; 3 liters jar: 2  
    Fill 5 liters jar with water from 8 liters jar.  
    8 liters jar: 1; 5 liters jar: 5; 3 liters jar: 2  
    Fill the 3 liters jar with water from the 5 liters jar.  
    8 liters jar: 1; 5 liters jar: 4; 3 liters jar: 3  
    Empty 3 liters jar in 8 liters jar.  
    8 liters jar: 4; 5 liters jar: 4; 3 liters jar: 0  
      
    Now you have 4 liters of water in 8 liters jar as well as 5 liters jar.
28. [Fake Coin Brain Teaser](http://gpuzzles.com/mind-teasers/fake-coin-brain-teaser/)
29. In front of you, there are 9 coins. They all look absolutely identical, but one of the coins is fake. However, you know that the fake coin is lighter than the rest, and in front of you is a balance scale. What is the least number of weightings you can use to find the counterfeit coin?
30. [**Answer & Explanation**](https://www.blogger.com/null)
31. **Solution:**
32. The answer is 2. First, divide the coins into 3 equal piles. Place a pile on each side of the scale, leaving the remaining pile of 3 coins off the scale. If the scale does not tip, you know that the 6 coins on the scale are legitimate, and the counterfeit is in the pile in front of you. If the scale does tip, you know the counterfeit is in the pile on the side of the scale that raised up. Either way, put the 6 legitimate coins aside. Having only 3 coins left, put a coin on each side of the scale, leaving the third in front of you. The same process of elimination will find the counterfeit coin.
33. [Funny Brain Twister](http://gpuzzles.com/mind-teasers/funny-brain-twister/)
34. We all know that New Year occurs after a week from Christmas and thus it falls on the same day as of Christmas. But this will not happen in 2050. In 2050, Christmas will appear on Sunday while New Year will appear on Saturday.  
      
    How can this be possible ?
35. [**Answer & Explanation**](https://www.blogger.com/null)
36. **Solution:**
37. Read the question carefully again. New Year do falls after Christmas but that happens if two different years. The question is put up against the year 2050 and thus there will be 51 weeks and 2 days in between them as New Year will appear on 1 January 2050 and Christmas will happen on 25 December 2050.
38. [Most Popular Logical Puzzle](http://gpuzzles.com/mind-teasers/most-popular-logical-puzzle/)
39. Outside a room there are three light switches. One of switch is connected to a light bulb inside the room.  
    Each of the three switches can be either 'ON' or 'OFF'.  
      
    You are allowed to set each switch the way you want it and then enter the room(note: you can enter the room only once)  
      
    Your task is to then determine which switch controls the bulb ??
40. [**Answer & Explanation**](https://www.blogger.com/null)
41. **Solution:**
42. Set the first switches on for abt 10min, and then switch on the second switch and then enter the room.  
    Three cases are possible  
    1.Bulb is on => second switch is the ans  
    2.Bulb is off and on touching bulb , you will find bulb to be warm  
    =>1st switch is the ans.  
    3.Bulb is off and on touching second bulb , you will find bulb to be normal(not warm)  
    =>3rd bulb is the ans.
43. [Famous Probability Puzzle](http://gpuzzles.com/mind-teasers/famous-probability-puzzle/)
44. This is a famous probability puzzle in which you have to choose the correct answer at random from the four options below.  
    Can you tell us whats the probability of choosing correct answer in this random manner.  
      
    1) 1/4  
    2) 1/2  
    3) 1  
    4) 1/4
45. [**Answer & Explanation**](https://www.blogger.com/null)
46. **Solution:**
47. 0%  
      
    Explanation:  
    1) why cant be 1/4 : If the answer is 1/4, then as we know two out of four answer choices is '1/4', the answer has be 1/2.  
    This is a contradiction, so the answer cannot be 1/4.  
      
    2) why cant be 1/2 : If the answer is 1/2 then because answer:"1/2" is 1 out of 4 answer choices, the answer must be 1/4. This is also a contradiction. So the answer cannot be 1/2.  
      
    3) why cant be 1 : If the answer is 1 then because answer:"1" is 1 out of 4 answer choices, the answer must be 1/4. Again the same contradiction and therefore answer cannot be 1
48. [Awesome Probability Logic Riddle](http://gpuzzles.com/mind-teasers/awesome-probability-logic-riddle/)
49. You need to divide 50 marbles(25-red and 25-blue) into two boxes such that the probability of picking red marble is maximized.  
      
    Following conditions need to hold true :  
    1. None of box is empty  
    2. All the marbles must be in one of two boxes.
50. [**Answer & Explanation**](https://www.blogger.com/null)
51. **Solution:**
52. Put one red marble in one box and all other marbles in the 2nd box.  
      
    Probability :  
    50 + 24/49

**Zoho Madurai MCQ C questions and answers**

1.

void main()

{

printf(“%s %s”,(“Zoho” “corp”), (“Campus” “corpp”),(“Zoho” “Corporation”));

}

Output:

Zohocorp Campuscorpp

Note: Since we have only 2 %s it will print the first 2 values, the last “Zoho” “Corporation” is neglected. But if we have 3 %s and on the right if there are only 2 values then those 2 values will be printed and some junk value will be printed as output. If simply ‘,’ is given the error will be thrown.

2.

int main()

{

int x=3,y=4,z=4;

printf(“ans=%d\n”,(z>=y>=x?100:200));

return 0;

}

Output:

ans=200

Note: z>=y is true hence gives value 1. Now 1>=x is false hence gives value 0. Then the condition is 0 i.e, false hence the false statement gets executed i.e, 200

3.

int main()

{

struct num

{

int n1:2;

int n2:3;

int n3:4;

} num={3,4,5};

printf(“%d%d%d\n”,num.n1,num.n2,num.n3);

}

Output:

-1-45

Note: Not sure how -1,-4,5 gets printed. But if that :2,:3,:4 is not available then the answer will be 345.

4.

unsigned int i=650000;

while(i++!=0)

{

printf(“%d”,i);

}

Answer: Infinte loop till the maximum value of unsigned int. Once the maximum value is reached, the loop gets terminated as the next value will be 0. Note it also prints 0.

5.

int sum=0;

int i,j;

for(i=0;i<=1000;i\*=2)

{

for(j=1;j<i;j++)

{

sum++;

}

printf(“%d”,sum);

}

Answer: Some large value. The time of execution will be high.

6.

int i;

for(i=0;i++;printf(“%d”,i));

printf(“%d”,i);

Output: 1

Note: The statement i++ returns 0 in the first case, hence condition becomes false, loop terminates. There is a semicolon(;) given at the end of for loop hence the printf statement doesn’t comes inside this for loop. Thus went the program control comes to the next line it print 1, i.e, incremented value of i.

7.

int a=0,b=0;

if(a++&&b++)

printf(“%d%d”,a,b);

else

printf(“great”);

Output: great

Note: 0 && 0 is 0, hence condition is false, the else block gets executed and prints great as output.

8.

enum SWITCH{off,on};

main()

{

enum SWITCH s= on;

printf(“size of enumeration %d \n”, sizeof(enum SWITCH));

printf(“size of object s is %d \n”,sizeof(s));

}

Output:

size of enumeration 4

size of object s is 4

**Some useful questions**

1. Predict the output

#include <stdio.h>

void main()

{

printf("%d",printf("%d",printf("%d",printf("%d",printf("%s","Hello World")))));

}

Answer: Hello World11211

Explanation: Printf returns number of digits or char that is printed. Initially Hello World is printed, this printf returns 11 which is the total char in Hello World. The next printf prints 11 and returns 2 i.e, there are 2 digits in 11. Next one prints 2 and returns 1, the other one also does the same.

2. What are the different types of real data type in C ?

A. float, double B. short int, double, long int

C. float, double, long double D. double, long int, float

Answer: C

3. Predict the output of program 1 and program 2.

|  |  |
| --- | --- |
| **Program 1:**  **#include <stdio.h>**  int main ()  {  float x = 3.6;  int y = (int)(x + 0.5);  printf ("Result = %d\n", y );  return 0;  } | **Program 2:**  **#include <stdio.h>**  int main ()  {  float x = 3.6;  int y = (int)x + (int)0.5;  printf ("Result = %d\n", y );  return 0;  } |

Answer:

Program1: 4

Program 2: 3

4. Predict the output

#include<stdio.h>

int main()

{

float a=0.7;

if(a < 0.7)

printf("C\n");

else

printf("C++\n");

return 0;

}

Answer: C.

Explanation: if(a < 0.7) here a is a float variable and 0.7 is a double constant. The float variable a is less than double constant 0.7. Hence the if condition is satisfied and it prints 'C'

5. #include<stdio.h>

#include<math.h>

int main()

{

printf("%f\n", sqrt(36.0));

return 0;

}

A. 6.0 B. 6 C. 6.000000 D. Error: Prototype sqrt() not found.

Answer: Option C.

Explanation: printf("%f\n", sqrt(36.0)); It prints the square root of 36 in the float format(i.e 6.000000). Declaration Syntax: double sqrt(double x) calculates and return the positive square root of the given number.

6. Predict the output

#include<stdio.h>

int main()

{

enum status { pass, fail, atkt};

enum status stud1, stud2, stud3;

stud1 = pass;

stud2 = atkt;

stud3 = fail;

printf("%d, %d, %d\n", stud1, stud2, stud3);

return 0;

}

A. 0, 1, 2 B. 1, 2, 3 C. 0, 2, 1 D. 1, 3, 2

Answer: C

7. #include<stdio.h>

int main()

{

extern int i;

i = 20;

printf("%d\n", sizeof(i));

return 0;

}

A. 2 B. 4 C. vary from compiler D. Linker Error : Undefined symbol 'i'

Answer: D

Explanation: The statement 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 linker error has occurred.

8. What is the output of the program

#include<stdio.h>

int main()

{

int x = 10, y = 20, z = 5, i;

i = x < y < z;

printf("%d\n", i);

return 0;

}

A. 0 B. 1 C. Error D. None of these

Answer: B

9. What is the output of the program

#include<stdio.h>

int main()

{

int a[5] = {2, 3};

printf("%d, %d, %d\n", a[2], a[3], a[4]);

return 0;

}

A. Garbage Values B. 2, 3, 3 C. 3, 2, 2 D. 0, 0, 0

Answer: D

10. According to ANSI specifications which is the correct way of declaring main when it receives command-line arguments?

A. int main(int argc, char \*argv[]) B. int main(argc, argv) int argc; char \*argv;

C. int main() { int argc; char \*argv; } D. None of above

Answer: A

11. What will be the output of the program (myprog.c) given below if it is executed from the command line?

cmd> myprog one two three

/\* myprog.c \*/

#include<stdio.h>

int main(int argc, char \*\*argv)

{

printf("%c\n", \*\*++argv);

return 0;

}

A. myprog one two three B. myprog one C. o D. two

Answer: C

12. What will be the output of the program (myprog.c) given below if it is executed from the command line?

cmd> myprog one two three

/\* myprog.c \*/

#include<stdio.h>

#include<stdlib.h>

int main(int argc, char \*\*argv)

{

printf("%s\n", \*++argv);

return 0;

}

A. myprog B. One C. two D. three

Answer: Option B

13. What will be the output of the program (sample.c) given below if it is executed from the command line (Turbo C in DOS)?

cmd> sample 1 2 3

/\* sample.c \*/

#include<stdio.h>

int main(int argc, char \*argv[])

{

int j;

j = argv[1] + argv[2] + argv[3];

printf("%d", j);

return 0;

}

A. 6 B. sample 6 C. Error D. Garbage value

Answer: Option C

Explanation:Here argv[1], argv[2] and argv[3] are string type. We have to convert the string to integer type before perform arithmetic operation. Example: j = atoi(argv[1]) + atoi(argv[2]) + atoi(argv[3]);

14. What will be the output of the program ?

#include<stdio.h>

int main()

{

static char \*s[] = {"black", "white", "pink", "violet"};

char \*\*ptr[] = {s+3, s+2, s+1, s}, \*\*\*p;

p = ptr;

++p;

printf("%s", \*\*p+1);

return 0;

}

A. ink B. ack C. ite D. let

Answer: A

15. Predict the output

#include<stdio.h>

void fun(void \*p);

int i;

int main()

{

void \*vptr;

vptr = &i;

fun(vptr);

return 0;

}

void fun(void \*p)

{

int \*\*q;

q = (int\*\*)&p;

printf("%d\n", \*\*q);

}

A. Error: cannot convert from void\*\* to int\*\* B. Garbage value

C. 0 D. No output

Answer: Option C

For more similar kind of questions refer http://www.indiabix.com/c-programming/questions-and-answers

**Round 1**

**Quants**

1. In an exam, there were 25 math qns and 75 nonmath qns. To answer a math qn, a candidate was supposed to spend twice the time he spends to answer a nonmath qn. If the entire exam duration was 2 hrs, find the time he spent on the math qns.

2. In 50 litres of milk, there was 10% water. how much water shud be added more to this mixture to make the water 25%?

3. a group of people went to a restaurant and the total bill was Rs. 2400. two of the them forgot to bring the wallet. so the others contributed an additional Rs.100 each to pay the bill. how many of them went to restaurant?

4. A fruit seller sells half the apples she has plus half an apple to the customer she meets. If she had no apples remaining with her at the end of meeting 4 customers, how many apples did she have initially?

5. The population of a city A is 60000 at present. It decreases at a rate of 80ppl/yr. Another city B has a population of 42000 at present whose population increases at a rate of 120ppl/yr. After how many years will both the cities have the same Population?

6. Two trains travelling towards each other on the same track at speeds 60km/hr. A fly is in btw the two traveling at a speed of 90km/hr. The fly starts from the engine of one train and flies to the engine of another train and returns back, and repeats the same till the two trains clash. Until the two trains clash, the fly flew a total distance of 180kms. How far away were the trains in the beginning?

7. A group of ppl went for a picnic. during their stay there, it rained for 15 days in all. but, if it rained in the morn, they had a clean evening and vice versa. If they enjoyed 11morns and 12 evenings in total, how many days did they stay ?

8. james and frank had money. if square of frank’s money and james money equals 176 and square of james money and frank’s money is 62. How much money does each have?

ZOHO QUESTIONS

I Round

1. Father told his son “I was as old as you at present when you were born. If

father’s present age is 38, what is his son’s age 5 years back?

2. In a jungle a man was at one end of the jungle. He has to give a 2 pieces of

cake to his friend who was at the other end of the jungle. There were 7

bridges on the way with 7 gatekeepers. Each gatekeeper will take half of the

cake he has and will give one piece back to him. How many cakes should the

man carry initially?

3. Gunal is a strange liar. He lies on 6 days of the week but he tells the truth on the 7thday. Consider the following statements

Day 1: I lie on Monday and Tuesday

Day 2: Today is Thursday, Saturday or Sunday

Day 3: I lie on Wednesday and Friday

Which day does he speak the truth?

4) I want to select the fastest three horses out of 25 horses. You can test only

5 horses at a time because there are only 5 tracks. You do not have a

stopwatch. How many minimum number of races will you conduct to pick

them?

5) A number when divided by 3 leaves a reminder 1, when by 4 leaves a

reminder 2, when by 5 leaves a reminder 3, when by 6 leavesa reminder 4.

what is the smallest number that satisfies the condition?

Section II –C aptitude

1)

int main()

{

printf(“%s %s”,(“Zoho” “corp”), (“Campus” ”corpp”),(“Zoho” “Corporation”);

}

2)

int main()

{

int x=3,y=4,z=4;

printf(“ans=%d\n”,(z>=y>=x?100:200));

return 0;

}

3)

int main()

{

struct num

{

i nt n1:2;

int n2:3;

int n3:4;

} num{3,4,5};

printf(“%d%d%d\n”,num.n1,num.n2,num.n3);

}

4)

unsigned inti=650000;

while(i++!=0)

{

printf(“%d”,i);

}

5) int main

{

sum=0;

int I,j;

for(i=0;i<=1000;i\*=2)

{

for(j=1;j<I;j++)

{

sum++;

}

printf(“%d”,sum);

}

6.

for(int i=0;i++;prinf(“%d”,i));

printf(“%d”,i);

7.

int a=0,b=0;

if(a++&&b++)

printf(“%d%d”,a,b);

else

printf(“great”);

8. enum SWITCH{off,on};

main()

{

enum SWITCH s= on;

printf(“size of enumeration %d \n”, sizeof(enum SWITCH));

printf(“size of object s is %d \n”,sizeof(s));

}

9. the cost of 3 chicken and 1 duck equals 2 geese. 3 ducks, 2 chicken and 1 goose cost 25$. If the cost of each bird was an integer, what is the individual cost of each

Zoho placement paper – 2014

Section – 1: Matrix Test (15 questions in 10 minutes)

Directions for questions 1-5: Answer the questions on the basis of transformations made on the given

matrix.

Condition A: The transformations are made individually. For example transformation 2 will not be

made on result on transformation 1.

COLUMN 1

COLUMN 2

COLUMN 3

COLUMN 4

ROW 1

1

1

1

1

ROW 2

2

4

8

16

ROW 3

3

9

27

81

ROW 4

4

16

64

256

Transformation 1: Column 2 is interchanged with column 4 and then row 3 is interchanged with Row 4.

Transformation 2: Row 2 is interchanged with Row 1 and then Column 4 elements are copied as Row 4.

Transformation 3: Column 4 elements are copied as Column 2 elements and then Row 3 is interchanged

with Row 1.

1. After transformation 1 what will be the element in Row 2 and Column 1?

a) 64 b) 2 c) 8 d) none of these

2. After transformation 3 what will be the elements of column 1?

a) 3,2,1,4 b) 1,4,2,3 c) 2,1,3,4 d) none of these

3. After transformation 2 what will be the element in Row 4 and Column 4?

a) 1 b) 16 c) 81 d) 256

4. After transformation 3 what will be the element in Row 3 and Column 1?

a) 1 b) 16 c) 81 d) 256

5. If transformation 1 is performed after performing transformation 3 i.e. 1 is performed on the

resultant matrix of 3, then what will be the elements of Row 4?

a) 4,64,4,256 b) 1,2,1,2 c) 4,256,64,256 d) none of these

Directions for questions 6-8: Answer the questions on basis of following matrices.

a

r

e

l

o

a

f

u

r

Matrix 1

d

e

g

l

q

r

f

r

s

Matrix 2

w

o

i

e

v

u

t

a

r

Matrix 3

6. If the elements of matrix 2 are concatenated (appended at the end) with the respective elements of

matrix 3 and then the elements of resultant matrix are concatenated with matrix 1 then what will be the

last element in dictionary among the 9 elements?

a) uar b) uet c) uux d) ufe

7. How many columns have at least one vowel?

a) 6 b) 7 c) 8 d) none of these

8. If the alphabets from all the matrices are taken, how many unique consonants will we get?

a) 6 b) 8 c) 10 d) 12

Directions 9-12: In the matrix given below Row 1, Row 2 and Row 3 are families. Answer the questions

on basis of this information.

Person

Friend

Enemy

A

D

G

B

E

A

C

G

E

9. How many pairs of friends are there (assuming friend of friend is a friend)?

a) 3 b) 4 c) 5 d) 6

10. How many pairs of enemies are there (assuming enemy of enemy is an enemy)?

a) 3 b) 4 c) 5 d) 6

11. If E becomes enemy of B, how many pair of enemies are there (assuming enemy of enemy is an

enemy)?

a) 12

c) a contradiction occurs

b) cannot be determined

d) none of these

12. Who can be removed from the matrix so that the number of pair of friends remains still the same?

a) A b) c c) G d) none of these

Directions 13-15: Answer the questions on the basis of matrix given.

00

34

164

23

91

-76

93

08

04

24

36

26

45

75

51

14

13. If all the numbers above 90 are added and then all the number below 10 are multiplied. What will be

the resultant of division of addition of numbers above 50 to the multiplied numbers below 10?

a) 1 b) 348 c) 225 d) None of these

14. If row 1 is added with row 2, row 3 is added with row 4, how many prime numbers will be there?

a) 0 b) 1 c) 2 d) none of these

15. If column 1 is interchanged with column 4 and row 1 is subtracted from row 4, how many multiples

of 5 will be there?

a) 2 b) 3 c) 4 d) 6

Section – 2: Number Series (20 questions in 4 minutes)

1. 23,29,36,44,53,…….

a) 61 b) 103 c) 63 d) 24

2. 3,4,12,5,6,……….

a) 30 b) 51 c) 60 d) 72

3. 1.9, 2.95,4,5.05,6.2,……

a) 7.25 b) 735 c) 7.35 d) 4.8

4. 23,8,34,81,33,………

a) 44 b) 57 c) 27 d) 47

5. 8,64,216,………

a) 576 b) 512 c) 144 d) 1024

6. 2,3,5,7,11,……….

a) 13 b) 15 c) 19 d) 23

7. 27,31,40,56,81,……..

a) 91 b) 100 c) 117 d) 193

8. 999,777,666,444,…………..

a) 222 b) 3333 c) 333 d) 111

9. 1,1,2,3,5,8,13,…….., 34,55

a) 99 b) 40 c) 21 d) 23

10. 0,1,32,243,…………

a) 1512 b) 1000 c) 1024 d) 1054

11. 53415, 75627, 97849, 19061, ……………

a) 31253 b) 31283 c) 32442 d) 32443

12. 15,31,63,80,242,………….

a) 691 b) 451 c) 600 d) 728

13. 4,36,144,400,……….

a) 500 b) 676 c) 900 d) 1024

14. 14,26,38,49,50,………..

a) 61 b) 51 c) 50 d) 62

15. 1,1/3,1/6,1/18,1/36,………….

a) 1/108 b) 1/72 c) 1/144 d) 1/48

16. AA, BB, CD, DH, ……….

a) EM b) EP c) ER d) ES

17. 24,39,416,525,……..

a) 687 b) 688 c) 639 d) 636

18. 12,50,6,3,0.18,………

a) 0.0036 b) 0.0054 c) 0.0063 d) 0.0064

19. 24,/,6,X,64,-, 252,……..,4,

a) + b) = c) - d) !

20. 4,9,25,49,121,169,…………

a) 225 b) 256 c) 289 d) 324

Section – 3: Quantitative Aptitude (12 questions in 15 minutes)

1. In a class, 24 boys are there and one seventh of total are girls. How many students are there in total?

a) 28 b) 30 c) 32 d) none of these

2. A mixture has milk and water in the ratio 5:1. 20 liters of water is added and the ratio now becomes

5:6. How much milk was present in original mixture?

a) 15 liters b) 25 liters c) 20 liters d) 30 liters

3. How many small cuboids of dimension 2m X 3m x 4 m can be accommodated in a cube of side 22 m?

a) 160 b) 385 c) 420 d) 464

4. What is the ratio of areas of circum circle and in circle of an equilateral triangle?

a) 1:2 b) 2:1 c) 3:1 d) 4:1

5. Two doctors, three lawyers and one teacher went for a picnic? How many persons would have went

for picnic at minimum if a person cannot be both teacher and lawyer?

a) 6 b) 5 c) 3 d) 4

6. “asd fgr ghy” stands for “let it be”. “uio fgr wet” stands for “let us go”. “wet mkl asd” stands for “go

with it”. What is the code for “be”?

a) asd b) ghy c) fgr d) none of these

7. The weight age given to various subjects while calculating total marks of a student is inversely

proportional to maximum marks of the subject. If math has weight age 0.5 and maximum marks 100,

and weight age for science is 0.875, what are the maximum marks for science?

a) 36 b) 73 c) 57 d) 100

8. The population of mice in a market doubles every day. Every day 20 mice are killed. How many mice

are there if after every three days, the number of mice becomes same again?

a) 36 b) 12 c) 60 d) 20

9. If printing a page requires 2mg of ink, how many rims of 500 pages can be printed with 1 kg of ink?

a) 200 b) 500 c) 1000 d) 2000

10. Three numbers are in A.P., and the product of them is same as product of smallest and largest. What

is the middle number?

a) 1 b) -1 c) 2 d) -2

11. A can complete 10 rounds of park in the same time as B completes 6 rounds. If circumference of

track is 200 m, how much start A can give to B in a race of 1 round?

a) 60 meters b) 80 meters c) 100 meters d) none of these

12. What is the probability for a pair of dice to show a sum of 5 or 10?

a) 1/6 b) 1/3 c) 7/36 d) 5/18