## UST Global Placement Papers

1.The product of all integers from 1 to 100 will have the following numbers of zeros at the end

A . 20

B . 24

C. 19

D .22

Ans.B

2.Answer the question based on the following information.

Each question is followed by two statements I and II. Answer each question using the following instructions.

Choose 1.  If the question can be answered by one of the statement alone, but cannot be answered by using the other statement alone.

Choose 2. If the question can be answered by using either statement alone.

Choose 3. If the question can be answered by using both the statements together, but cannot be answered by using either statement alone.

Choose 4. If the question cannot be answered even by using both statements together.

What are the ages of two individuals, X and Y?

I. The age difference between them is 6 yr.

II. The product of their ages is divisible by 6.

A .1

B.2

C.3

D.4

Ans..D

3. The product of the ages of Ankit and Nikita is 240. If twice the age of Nikita

is more than Ankit's age by 4 years, what is Nikita's age?

A 14          B 15          C 16          D 12

Ans.D

4.Convert the number 1982 from base 10 to base 12. The result is

A . 1182

B .1912

C.1192

D.1292

Ans.C

5.Answer the questions based on the following information. Each Question is followed by two statements I and II. Answer each question using the following instructions.

Choose 1. If only one of the statements can be used to answer the question not the other one.

Choose 2. If either of the statements is sufficient to answer the question.

Choose 3. If both the statements have to be used.

Choose 4. If the question cannot be answered using both the statements.

Total amount of Rs 38500 was distributed among Praveen, Raisjan and Nitesh. How much does each get?

I.  Praveen gets 2/9 of what other two get.

II. Ranjan gets 3/11 of what other two get.

A.1

B.2

C.3

D.4

Ans.C

6.Question contains four arguments of three sentences each. Choose the set in which the third statement is a logically conclusion of the first two.

A. All Ts are squares. All squares are rectangular. All Ts are rectangular.

B. Some fat are elongated. Some elongated things are huge. Some fat are huge.

C. Idiots are bumblers. Bumblers fumble. Idiots fumble.

D. Water is good for health. Health food is rare. Water is rare.

A.D only

B.C only

C.Both A and C

D.All of these

 Ans.C

7.A group of 630 children is arranged in rows for a group photograph session. Each row contains three fewer children than the row in front of it. What number of rows is not possible?

A.3

B.4

C.5

D.6

 Ans.D

8.Three identical cones with base radius r are placed on their bases so that each in touching the other two. The radius of the circle drawn through their vertices is

A .smaller than r

B.equal to r

C.larger than r

D.depends on the height of the cones

 Ans.C

9.Let u = (log x )2 – 6 (log2 x) + 12, where x is a real number. Then the equation xn = 256, has

A.no solution for x

B.exactly one solution for x

C.exactly two distinct solutions for x

D.exactly three distinct solutions for x

 Ans.B


10.Answer the questions based on the foil owing information.

Each question is followed by two statements I and II. Answer each question using the following instructions.

Choose 1. If the question can be answered by any one of the statements alone, but cannot be answered by using the other statement alone.

Choose 2. If the question can be answered by using either statement alone.

choose 3. If the question can be answered by using both the statements together, but cannot be answered by using either statement alone.

Choose 4. If the question cannot be answered even by using both statements?

The average weight of students in a class is 50 kg. What is the number of students in the class?

I. The heaviest and the lightest members of the class weigh 60 kg and 40 kg respectively.

II. Exclusion of the heaviest and the lightest members from the class does not change the average weight of the students.

A .1

B.2

C.3

D.4

 Ans..D


11.Answer the questions based on the following information.

Each of these questions is followed by two statements I and II.

Choose 1. If the question con be answered with the help of statement I alone.

Choose 2. If the question can be answered with the help of statement II, alone.

Choose 3. If both statement I and statement II are needed to answer the question.

Choose 4. If the question cannot be answered even with the help of both the statements.

What is the profit percentage?

I. The cost price is 80% of the selling price.

II. The profit is Rs 50.

A.1

B.2

C.3

D.4

Ans.A


12..– 1 is divisible by

A .13

B.31

C.5

D.None of these

Ans.B


13.From the alternatives, choose the one which correctly classifies the four sentences as a

F: Fact: If it relates to a known matter of direct observation, or an existing reality or something known to be true.

J: Judgment: If it is an opinion or estimate or anticipation of common sense or intention.

I: Inference: If it is a logical conclusion or deduction about something based on the knowledge of facts.

A.      The minister definitely took the wrong step.

B. Under the circumstances, he had many other alternatives.

C. The prime minister is embarrassed due to the minister's decision.

D. If he has put the government in jeopardy, the minister must resign.

A .JFFI

B.IFJI

C.FFJI

D.IFIJ

 Ans.A


14.Answer the questions based on the following information.

Each of these questions is followed by two statements I and II.

Choose 1. If the question con be answered with the help of statement I alone.

Choose 2. lf the question can be answered with the help of statement II, alone.

Choose 3. If both statement I and statement II are needed to answer the question.

Choose 4. If the question cannot be answered even with the help of both the statements.

What is the number x?

I The LCM of x and 18 is 36.

II The HCF of x and 18 is 2.

A.1

B.2

C.3

D.4

 Ans.C


15.Answer the questions based on the following information.

Each of these items has a question followed by two statements, I and II. Mark the answer

Choose 1. If the question can be answered with the help of statement I alone.

Choose 2. If the question can be answered with the help of statement II alone.

Choose 3. If bath statement I and statement II are needed to answer the question.

Choose 4. If the question cannot be answered even with the help of both the statements.

Little Beau Peep lost her sheep. She could not remember how many were there. She knew she would have 400 more next year, than the number of sheep she had last year. How many sheep were there?

I. The number of sheep last year was 20% more than the year before that and this simple rate of increase continues to be the same for the next 10 yr.

II. The increase is compounded annually.

A.1

B.2

C.3

D.4

Ans.C

16.How much number can be made with digits 0, 7, 8 which are greater than 0 and less than a million?

A . 496

B .486

C.1084

D.72

Ans.D

17.Let N = 553+ 173- 723. N is divisible by

A.Both 7 and 13

B.Both 3 and 13

C.Both 17 and 7

D.Both 3 and 17

Ans.D

18.10 straight lines, no two of which are parallel and no three of which pass through any common point, are drawn on a plane. The total number of region (including finite and infinite regions) into which the plane would be divided by the lines is

A.56

B.255

C.1024

D.Not unique

 Ans.D


19.Answer the questions based on the following information.

Each item has a question followed by two statements I and II.

Choose 1. If the question can be answered with the help of statement I alone.

Choose 2. If the question can be answered with the help of statement II alone.

Choose 3. If both, statement I and statement II are needed to answer the question.

Choose 4. If the question cannot be answered even with the help of both the statements.

What are the ages of the three brothers?

I. The product of their ages is 21.

II. The sum of their ages is not divisible by 3.

A .1

B.2

C.3

D .4

 Ans.D


20.The pendulum of a clock takes 7s to strike 4 o'clock. How much time will it take to strike 11 o'clock?

A.18s

B.20s

C.19.25s

D.23.33s

Ans.D

**Swapping and Key Dictionary Problems**

1. .How to select an element by id and swapping an image?

2. .Swapping is for

    a. Works best with many small partitions

    b. Allows many programs to use memory simultaneously

    c. Allows each program in turn to use the memory

    d. Does not work with overlaying

    Ans-c

3. .What is the difference between Swapping and Paging?

4.. What does the swapping system do if it identifies the illegal page for swapping?

5. Is the Process before and after the swap are the same? Give reason

6. .What are the phases of swapping a page from the memory?

7. .Code for swapping of two numbers without using temporary variable using C.

8. What are conditions on which deadlock can occur while swapping the processes?

9.What are the criteria for choosing a process for swapping into memory from the swap device?

10. What is Expansion swap?

11. What is a Dictionary object?

12. Explain about the dictionary function in Python?

13.What is the differences between structure and table in data dictionary in ABAP?

14.What is the Dictionary class?

15.Where the integrity constraints are stored in data dictionary

   Ans- USER_CONSTRAINTS

16. What is a Data Dictionary ?

17. Which dictionary view shows the password expiration date for a user?

18. What are the different types of data dictionary objects?

19. Where the integrity constraints are stored in Data Dictionary ?

20. Can a transparent table exist in data dictionary but not in the data base physically?

**Technical & aptitude questions:-**


1. 12 members were present at a board meeting. Each member shook hands with all of the other members before & after the meeting. How many hand shakes were there?
Answer: 132
Think of it this way: the first person shakes hands with 11 people, the second person also shakes hands with 11 people, but you only count 10, because the hand shake with the first person was already counted. Then add 9 for the third person, 8 for the fourth, & so on. 66 hand shakes took place before & 66 after the meeting, for a total of 132

2. The letters P, Q, R, S, T, U and V, not necessarily in that order represents seven consecutive integers from 22 to 33.
- U is as much less than Q as R is greater than S.
- V is greater than U.
- Q is the middle term.
- P is 3 greater than S.
Can you find the sequence of letters from the lowest value to the highest value?
11. B, J and P are related to each other.
1. Among the three are B's legal spouse, J's sibling and P's sister-in-law.
2. B's legal spouse and J's sibling are of the same sex.
Who is the married man?
Answer: J is the married man.

3. A fish had a tail as long as its head plus a quarter the lenght of its body. Its body was three-quarters of its total length. Its head was 9 inches long. What was the length of the fish?

4. .The roads of city r either parallel or perpendicular to one another the roads are all straight, roads A,B,C,D & E are parallel to 1 another, Roads G,H,I,J,K,L & M are parallel to 1 another
1. Road A is 1km east of road B
2. Road B is half km West of road C
3. Road D is 1 km west of road E

5. There are 2 & only 2 kinds of people in island, one is the "knight" who say truth & the other kind is "knave" who say lie. A man once asked the first man..

6. In 1978, a kg of paper was sold at Rs25/-. If the paper rate increases at 1.5% more than the inflation rate which is 6.5% a year, then what will be the cost of a kg of paper after 2 years?

(a) 29.12
(b) 29.72
(c) 30.12
(d) 32.65
(e) none of these

7. In A,B,C are having some marbles with each of them. A has given B and C the same number of marbles each of them already have. Then, B gave C and A the same number of marbles they already have.
Then C gave A and B the same number of marbles they already have. At the end A,B,and C have equal number of marbles.

(i) If x,y,z are the marbles initially with A,B,C respectively. Then the number of marbles B have at the end
(a) 2(x-y-z)
(b) 4(x-y-z)
(c) 2(3y-x-z)
(d) x + y-z
Ans. (c)

(ii) If the total number of marbles are 72, then the number of marbles with A at the starting
(a) 20
(b) 30
(c) 32
(d) 39
Ans. (d)

8. If a car starts from A towards B with some velocity. Due to some problem in the engine after traveling 30km, the car goes with 4/5 th of its actual velocity
The car reaches B 45 min later to the actual time. If the car engine fails after traveling 45km, the car reaches the destination B 36min late to the actual time What is the initial velocity of car and what is the distance between A and B in km

Ans. 20 & 130.

9. A person has Rs 100/- in his pocket, he can as 25 pencils or 15 books. He kept 15% of the money for traveling expenses and purchased 5 pencils. So how many books he can purchase with the remaining money.

10. Ten questions on analogies.
eg: chief : tribe :: governer : state epaulette : shoulder :: tiara : head guttural : throat :: gastric : stomach inept : clever :: languid : active knife : butcher :: hammer : carpenter ::

11. The values of shares (in Rs).of A, B and C from January to June are as follows.
Month A B C
January 30 60 80
February 35 65 85

March 45 75 65
April 40 75 82
May 55 75 85
June 50 75 80

i) During this period which share has undergone maximium fluctuation?
ii) In which month it is possible to buy B and C selling A?
iii) In which month the share values are very low?
iv) By purchasing one share of A and 4 each of B and C in the beginning of the period,
when should these be sold to get maximum profit?

12. In a computer institute 9 languages can be taught. The module is of 6 months duration and of
the six languages only one can be taught each month . In addition to that BASIC is always taught and
should be in first month itselfWORD PERFECT is to be taught in the preceding week of WORD STAR.
FORTRAN can not be taught until COBOL is taught prior to that BINO, FIFO can never be taught in
single module languages are BASIC, WORD STAR, WORD PERFECT, FORTRAN, COBAL, BINO, FIFO,
LOTUS, C
i) If word star is in 3rd month , what could be in 6th month.
ii) If COBAL is in the 2nd month and BINO in 6th month. FORTRAN will be taught in which month.

13. In a class, except 18 all are above 50 years. 15 are below 50 years of age. How many people are
there
(a) 30
(b) 33
(c) 36
(d) none of these.
Ans. (d)

14. A square plate of some size is cut at four corners. Equal squares of the same size are cut and is
formed as open box. If this open box carries 128 ml of oil. What is the size of the side of the plate?
(a) 17
(b) 14
(c) 13
(d) None of these

15. In a square, all the mid points are joined. The inner square is shaded. If the area of the square is
A, what is the area of the shaded area?

16. If the following statements are given

I @(a,b)= (a+b)/2
II /(a,b)= a/b
III *(a,b)= ab
IV If a=1, b=2 then find

i) /(a,(@(a,b),*(a,b)))
ii) */(a,@(*(a,b)))

17 If the following statements are given

(x#y) = x + y- xy

(x*y) = (x + y)/2
i) Find the values of x, y will satisfy this equation (x#y)#(x*y) < (x#y)
ii) Find the values of x, y will satisfy this equation (a*b)#(b*c)< (a#b)*(b*c)

18 Export PS1 results in(PS1 pwd)
a) primary prompt being your current directory
b) primary prompt and secondary prompts being the current directory
c) primary prompt prompt being your home directory
d) primary prompt and secondary prompts being the home directory
e) None of the above.

19. If you type in the command nohup sort employees > list 2 > error out & and log off ,the next time you log in, the output will be
a) in a file called list and the error will de typed in a file error out
b) there will be no file called list or error out
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20. In UNIX a files i-node ......?

Ans. Is a data structure that defines all specifications of a file like the file size, number of lines to a file, permissions etc.

21 The UNIX shell ....
a) does not come with the rest of the system
b) forms the interface between the user and the kernal
c) does not give any scope for programming
d) deos not allow calling one program from with in another
e) all of the above
Ans. (b)

22 enum number { a= -1, b= 4,c,d,e}
What is the value of e ?
(a) 7
(b) 4
(c) 5
(d) 15
(e) 3

23 The very first process created by the kernal that runs till the kernal process is halts is
a) init
b) getty
c) both (a) and (b)
d) none of these
Ans. (a)

24 Output of the following program is
main()
{int i=0;
for(i=0;i<20;i++)

```
{switch(i)
case 0:i+=5;
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case 5:i+=5;
default i+=4;
break;}
printf("%d,",i);
}
}
```

a) 0,5,9,13,17
b) 5,9,13,17
c) 12,17,22
d) 16,21
e) Syntax error

Ans. (d

**UST Global Placement Paper-Some more questions**

1. In 1978, a kg of paper was sold at Rs25/-. If the paper rate increases at 1.5% more than the inflation rate which is 6.5% a year, then what will be the cost of a kg of paper after 2 years?

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A has given B and C the same number of marbles each of them already have.
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epaulette : shoulder :: tiara : head
guttural : throat :: gastric : stomach
inept : clever :: languid : active
knife : butcher ::
hammer : carpenter ::

5. roads lead to a country indicated by letters X, Y, Z,1,2,3. When there is storm, Y is blocked. When there are floods X,1,2, will be blocked..

6. The values of shares (in Rs).of A, B and C from January to June are as follows.
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(c) 13
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10. In a square, all the mid points are joined. The inner square is shaded. If the area of the square is A, what is the area of the shaded area?

11. Two questions on basic angles i.e given a circle, a few chords or diameter is drawn etc.

12. If the following statements are given

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/(a,b)= a/b
*(a,b)= ab
If a=1, b=2 then find

i) /(a,(@(a,b),*(a,b)))

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Ans. (b)

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What is the value of e ?
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a) init
b) getty
c) both (a) and (b)
d) none of these

Ans. (a)

20. Output of the following program is
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for(i=0;i<20;i++)
{switch(i)
case 0:i+=5;
case 1:i+=2;
case 5:i+=5;
default i+=4;
break;}

```
printf("%d,",i);
}
}
```

a) 0,5,9,13,17
b) 5,9,13,17
c) 12,17,22
d) 16,21
e) Syntax error

Ans. (d)

21. 12 members were present at a board meeting. Each member shook hands with all of the other members before & after the meeting. How many hand shakes were there?

Answer: 132

22.Think of it this way: the first person shakes hands with 11 people, the second person also shakes hands with 11 people, but you only count 10, because the hand shake with the first person was already counted. Then add 9 for the third person, 8 for the fourth, & so on. 66 hand shakes took place before & 66 after the meeting, for a total of 132

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- U is as much less than Q as R is greater than S.
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Can you find the sequence of letters from the lowest value to the highest value?

24. B, J and P are related to each other.
1. Among the three are B's legal spouse, J's sibling and P's sister-in-law.
2. B's legal spouse and J's sibling are of the same sex.
Who is the married man?

Answer: J is the married man.

25. A fish had a tail as long as its head plus a quarter the lenght of its body. Its body was three-quarters of its total length. Its head was 9 inches long. What was the length of the fish?

26.There r 16 balls in a bag, 8 red ones, 4 blue ones & 4 green ones. What is the least number of balls to be taken if we have at least one ball from each color?

Answer: 13

27. .the roads of city r either parallel or perpendicular to one another the roads are all straight, roads A,B,C,D & E are parallel to 1 another, Roads G,H,I,J,K,L & M are parallel to 1 another

1.  Road A is 1km east of road B
2.  Road B is half km West of road C
3.  Road D is 1 km west of road E

28. There are 2 & only 2 kinds of people in island, one is the "knight" who say truth & the other kind is "knave" who say lie. A man once asked the first man..

1. In a FET the electrode, which corresponds to collector in bipolar transistor, is ?
a.)source
b.)drain
c.)gate
d.)none

**Some More questions that are asked:-**

2. The device which acts like an NPN and a PNP transistor connected base to base and emitter to collector is ?
a.)Triac
b.)UJT
c.)Diac
d.)SCR

3. When the p network of figure ? I and T-network of figure ? II are equivalent then the values of R1, R2 and R3 will be respectively ?
a) 9W, 6W and 6W
b.) 6W, 6W and 9W
c.) 9W, 6W and 9W
d.) 6W, 9W and 6W

4. When a capacitance transducer has two plates of area 5cm2 each, separated by an air gap of 2mm than the displacement sensitivity in pf/cm due to gap change would be ?
a.) 11.1
b.) 44.2
c.) 52.3
d.) 66.3

5. In the given fig. A-1, C=5, m H and C=20 m F, C is initially charged to 200 V. After the switch.
S is closed at t = 0 the
maximum value of current and the
time at which it reaches this value are respectively.
a.) 400 A, 15.707 mS
b.) 50 A, 30 mS
c.) 100 A, 62.828 mS
d.) 400 A, 31.414 mS

6. ?Not allowed? condition in NAND gate SR flip flop is ?
a.) s = 0, R = 0
b.) s = 1, R = 1
c.) s = 0, R = 1
d.) s = 1, R = 0

7.main()

```
{
int x=20,y=35;
x = y++ + x++;
```

```
y = ++y + ++x;
printf("%d %d\n",x,y);
}
```
Ans. 57 94

8. #define min((a),(b)) ((a)<(b))?(a):(b)
```
main()
{
int i=0,a[20],*ptr;
ptr=a;
while(min(ptr++,&a[9])<&a[8]) i=i+1;
printf("i=%d\n",i);}
```

Ans:5.

9. main()
```
{char a[10]={1,2,3,4,5,6};int x;
for(x=0;x<4;x++){ b[x]=x+,a,,}
printf("%s",b);}
```

Ans:abcd56

10. TCP/IP is used in?

Ans:LAN/WAN

11. Host IP Address is?

Ans:32 bits OR 4 bytes.

12. A 16 bit reg can hold (2's complement form)

A) 0 To 255    B) -32767 To +32767    C) -32768 To +32767    D) -32767 To +32768