Hexaware:

Selection Process:

The company conducts recruitment process every year to select new candidates. The selection process of the company consists of 4 rounds. These rounds are as follows:

- Written Exam & Essay Writing
- Group Discussion
- Technical Interview
- HR Interview

Pattern of Written Exam:

Sections	No .of Questions	Time Allotted (in mins)
Aptitude	20	100
General English	20	
Reasoning	20	
Technical	40	
Essay Writing	1	15-20

The total time allotted to the written exam is 100 minutes. After aptitude test essay writing is conducted. Time limit for essay writing is generally 15 - 20 mins.

- **Aptitude**section consists of questions based on data interpretation, graphs, blood relations, statement reasoning, etc. Also, There are questions from basic mathematics like time, speed & distance, algebra, arithmetic, probability, geometry, permutation & combination, etc. Further, there are questions from English language like grammar usage, fill in the blanks, etc.
- **General English**section consists of questions based on reading passages , sentence, completion , synonyms ,Antonyms and Sentence Completion.
- **Technical** section covers questions from the topics such as C, C++, Java, DBMS, and OS.
- 1. the ratio of the length: breadth: height of cuboid is 5:4:3 the volume of 7500 what will be the surface area of the bar.
- 2. What would be the missing number in the series: 1, 20, 266, 675?
- 3. 12, 51, 34, 95,?

- 4. A train which is 150m. long passes a platform of 200 m in 15 sec. What is the speed of the train? A) 36 km/hr

 - B) 64 km/hr
 - C) 84 km/hr
 - D) 91 km/hr
- 5. An accurate clock show 8 o' clock in the morning. The hour hand then rotates by 90o. The time in the clock is:
 - A) 9 o'clock
 - B) 10 o' clock
 - C) 11 o'clock
 - D) 12 o'clock
- 6. A person bought 110 glass bowls at a rate of Rs. 10 per bowl. He sold 100 of them at Rs. 14 and the remaining broke. What is the percentage gain for A?
 - A) 40
 - B) 300/11
 - C) 243/7
 - D) 279/11
- 7. if 6 coins are tossed simultaneously what is the probability of getting atleast four heads

find the number

if 1 = 2

2 = 10

3 = 30

4 = 68

5 = ?

In how many ways can you distribute 6 prizes among 5 children if every child must get atleast one?

a men walked 30m west 5m south 10m west 35m north to tollgate find the distance from the start gate?

Find sum of series: 1+ 0.1+0.01+0.001+....

Two commodities have cost per kg is 4.75Rs & 3.20Rswere mixed in a certain ratio so as to make cost price of mixture as 17.75 Rs. Find the ratio Three liquids were mixed in 5:4:1 ratios. If cost per kg for ach of them is 4.50, 3.75& 5.10. Then in what price mixture should be sold to get 25% profit? If a tap could fill entire tank in 18 hrs due to leakage, then in how much time tank can be emptied by leakage if tap can fill entire tank in 12 hrs without leakage

If no of employees are reduced by ratio x:y & their wages are increased by ratio p:q. then find the ratio to which their wages bill decreases

Find the probability in a group of 10 students sitting in a row , two of them always sit next to each other

Find the probability that a five digit no formed by 1,2,3,4,5 (not repeated) are divisible by 4

In an interview, the probability of appointing Husband is 1/5 while that of wife is %.find probability that only one of them get selected in interview.

Speed of boat in still water is 9km/h. if boat moves upstream A to B in 2 hrs. & B to A in 1 hrs. Then find distance b/w A&B

Find avg of all nos. which lies b/w 1 and 100 & r divisible by 7

In the series 0, 3, 8, 15, What is the next number? Ans: 24

- 9) X < 0, Y <> 0 then which of the following is always positive? Ans. $(x + y)^2$
- 10) Let $ax^2 + bx + c = 0$ If the sum of the equal roots is equal to the product of the same roots. Then which of the following hold true Ans. b+c=0
- 11) Find the value of (1.99)2 Ans.3.9601
- 12) There is a room with 6' x 8'. A 1' tile is fixed along the 4 walls in one row. How many 1" tiles require to finish the work. Ans. 24
- 13) 2 persons can finish a job in 8 days. First person alone can finish the work in 24 days. How many days does the second person take to finish the job? Ans. 12 days
- 14)In a car wheel, two spokes cover 15 degree. Then for the entire car, how many spokes are there? Ans. 48.
- 15) What is the angle of degree suspended when two hands of clock showing the time 2.30. Ans. 105 degrees
- 16)A person's salary is getting reduced by 20%. What percentage should be added to get back hisoriginal salary? Ans. 25%
- 17) Two persons start at the same point, walk in opposite directions with 5km/hr and 5.5km/hr respectively.

18) What is the distance separated after 2 and half hrs? Ans. 26.25

19)A person starts walking at a speed of 5km/hr through half the distance, rest of the distance he covers with aspeed 4km/hr. Total time of travel is 9 hours. What is the maximum distance he can cover?

Ans. 40km.

20)In a rectangle the length is increased by of the original length. By what proportion should the width be reduced so that the area will be the same? Ans33

21)If a square is formed by the diagonal of the square as an edge, what is the ratio between the area? Ans. 2

22) The perimeter of a rhombus is 52 units. One of its diagonal is 24 units. What is its second diagonals length? Ans. 10

23)A cubical rectangular bar has the dimensions with the ratio 5 : 4 : 3. Its volume is 7500. What is the surface area of the bar? Ans. 2350

24)3 persons started placementpapers with a capital of Rs.3000 . B invest Rs.600 less than A, C invest Rs.300 less than B. Then what is the share amount of B in a profit of Rs.886? Ans: Rs. 265.8

Directions for questions 1-10: Expand the following terms

HTML

Ans. Hyper Text Markup Language

RISC

Ans. Reduced Instruction Set Computing

ASCII

Ans. American Standard Code For Information Interchange

ANSI

Ans. American National Standard Institute.

XML

Ans. Extended Markup Language

FLOPS

Ans. Floating Point Operating Per Second

SQL

Ans. Sequential Query Language

QBE

Ans. Query By Example ALE Ans. Address Latch Enable What is lagging in DBMS? Ans. Reduced Redundancy. Directions 12 to 20: For the following questions find the odd man out Unix OS/2 **CMOS MSDOS** Ans. CMOS Oracle Informix Sybase LISP Ans. LISP Laser Inkjet Dotmatirx Mouse Ans. Mouse Dir Cls Csh Copy Ans. Csh Bit Byte Nibble Digit Ans. Digit Hard Disk Floppy Drive CD ROM Cache Ans. Cache SQL QUEL QBE **ORACLE** Ans. Oracle C++

JAVA

VC++ PASCAL Ans. PASCAL

Projection Operation Selection Operation Intersection Set Difference Operation

Ans. Intersection

Which of the following is a universal gate?

- (a) OR
- (b) AND
- (c) XOR
- (d) NOR

Ans. NOR

The default back end of the VB is

- (a) Oracle
- (b) Sybase
- (c) Informics

Ans. Sybase

What is meant by Superconductivity?

Ans. No reistance

Viscosity

Ans. Friction

What is the Lock Based Protocol used for?

Ans. Concurrency Control in DBMS

Directions for question 25 to 32: Convert the decimal numbers on the left to the required form 9's complement of 28

Ans. 71

Binary of 58

Ans. 111010

Octal of 359

Ans.547

Hexadecimal of 650

Ans.28A

BCD of 18

Ans.0001 1000

BCD of 34.8

Ans.0011 0100.1000

Excess-3 code of 6

Ans.1001

Ans.1100

If Ax + By = 1F16; Cx + Dy = 2510. Find the value of x and y

Semaphore is used for

- (a) synchronization
- (b) dead-lock avoidence
- (c) box
- (d) none

Ans. a

For addressing 1 MB memory, the number of address lines required,

- (a) 11
- (b) 16
- (c) 22
- (d) 24

Ans. b

Which of the following remains in memory temporarily

- (a) Resident portion of COMMAND.COM
- (b) Transient portion of COMMAND.COM
- (c) API
- (d) Disk BIOS

Ans. b

Pick the odd man out

- (a) IO.SYS
- (b) MSDOS.SYS
- (c) ROM-BIOS
- (d) COMMAND.COM

Ans. c

OS/2 is a

- (a) Single User OS
- (b) Multi User OS
- (c) Multi Tasking OS
- (d) None of these

Ans. c

Bootstrap loader program is a program belonging to

- (a) ROM startup software
- (b) ROM extension software
- (c) ROM BIOS software
- (d) ROM Basic software

Ans. a

The entry of starting cluster of a file is present in

- (a) Boot Parameters
- (b) Directory
- (c) FAT
- (d) Partition Table and master boot program

Ans. c

Directions for questions 1-6: Find the correct meaning of the following phrases

A man of letters

A man of straw

To be in the air

To bite the dust

Man of few words

Penny wise pound foolish

Find the reminder when 333666777888999 divided by 3 or 9 or 11?

Which is the biggest perfect square amongst the following 15129, 12348, 23716, 20736

The greatest area of the following

- (a) The radius of circle is 4
- (b) The square of diagonal is 4
- (c) The square of side is 4

The area of the maximum size of the circle described from the 10 square inch square?

In the series 0, 3, 8, 15, What is the next number?

X < 0, Y <> 0 then what is the possibility that the result is always positive?

Ans. xy

3 red and 4 blue balls are in a basket. A member of PPTeam is drawing balls from the basket. What is the probablity of getting the 3 red balls simultaneously?

Let ax2 + bx + c = 0

If the sum of the equal roots is equal to the product of the same roots. Then which of the following hold true

- (a) a + b = 0
- (b) a = 0
- (c) c = 0
- (d) a + c = 0

A fold density is 19 times greater than the water and for copper it is 9 times. At what ratio you can mix gold and copper to get 15 times denser than water.

Ans. 3:2

Find the value of (1.99)2

Ans. 3.9601

There is a room with 6' x 8'. A 1' tile is fixed along the 4 walls in one row. How many 1" tiles require tofinish the work.

Ans. 24

2 persons can finish a job in 8 days. First person alone can finish the work in 24 days. How many daysdoes the second person take to finish the job?

Ans. 12 days

A 4" cube is painted in all its faces and then it is cut down into 1" blocks. How many 1" blocks are thereeven without a single face being painted?

Ans. 8

A cylinder is inserted in a sphere d/h = 2/3. Find the surface area of the cylinder?

In a car wheel, two spokes cover 15 degree. Then for the entire car, how many spokes are there? Ans. 24.

What is the angle of degree suspended when two hands of clock showing the time 2.30. Ans. 105 degrees

The age difference between two brothers is 3 years. After 6 years the ratio between the age is 9:8What are their ages?

Ans. 21 and 18

A person's salary is getting reduced by 20%. What percentage should be added to get back his original salary?

Ans. 25%

Two persons start at the same point, walk in opposite directions with 5km/hr and 5.5km/hr respectively. What is the distance separated after 2 and half hrs?

Ans. 26.25 (approx)

A person starts walking at a speed of 5km/hr through half the distance, rest of the distance he covers with a speed 4km/hr. Total time of travel is 9 hours. What is the maximum distance he can cover?

Ans. 40km.

Initially two cups of same volume are present with milk filled upto 3/5th and 4/5th of their volumes. Water is then filled. Then two mixtures are mixed. Find the ratio of water to milk in the mixture.

Ans. 3:7

16 grams of radioactive material decays into 8 grams in 10 years. How long will it take to decay to 1 gram ?

Ans. 70 yrs.

In a rectangle the length is increased by of the original length . By what proportion should thewidth be reduced so that the area will be the same?

Ans. 33

Find the nth number in the series is 1, -3, 5, -7.____ Ans. (-1)*(2n-1)

If a square is formed by the diagonal of the square as an edge, what is the ratio between the area? Ans. 2

The perimeter of a rhombus is 52 units. One of its diagonal is 24 units. What is its second diagonals length?

Ans. 10

A cubical rectangular bar has the dimensions with the ratio 5 : 4 : 3. Its volume is 7500. What is the surface area of the bar?

Ans. 2350

In a class total 34 students, 16 are have a brother, 15 are have sisters, 9 students don't have either brothers or sisters. Find the number of students having both brother and sisters.

A batsman scored 18 runs in his 18th innings and that makes his average 18. Find his average upto the 17th innings?

Ans. 19

6 women can do 75 units of work in 8 days by working 5hrs/day. In how many days can 4 women do 30 units of work by working 8hrs/day?

A persons salary iis decreased by steps of 20%, 15% and 10%. What will be the percentage decrease, if the salary is decreased in a single shot?

The ratio of the length: breadth: height of a cuboid is 5:4:3, and the volume is 7500. What will be its surface area?

If the circumference of a circle is 100 units, Then what will the length of the arc described by an angle of 20 degree?

3 persons started placementpapers with a capital of Rs.3000 . B invest Rs.600 less than A, C invest Rs.300 less than B. Then what is the share amount of B in a profit of Rs.886?

Directions for 41-50: Which of the following is the correct spelling for the word supercede and supersede recommend and reccomend superitendent and superitendant separate and seperate succeed and suceed coolly and cooly despair and dispair ridiculous and rediculous indespensible and indepensable tranquility or tranquillity

C TEST

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Directions: For the given sample program give the output of the program(30 marks)
main()
int a[]={ 2,4,6,8,10 };
int i;
change(a,5);
for( i = 0; i <= 4; i++)
printf("\n %d",a[i]);
change( int *b, int n){
int i;
for(i = 0; i < n; i++)
*(b+i) = *(b+i) + 5;
}
```

1)Find the reminder when 333666777888999 divided by 3 or 9 or 11? (2 Questions like this)

2) Which is the biggest perfect square amongst the following? 15129, 12348, 23716, 20736

- 3) The area of the maximum size of the circle described from the 10 inch square?
- 4) In the series 0, 3, 8, 15,__ What is the next number? Ans:24
- 5) X < 0, Y = 0 then what is the possibility that the result is always positive? Ans. $(x + y)^2$
- 6) 3 red and 4 blue balls are in a basket. A member of PP Team is drawing balls from the basket. What is the probability of getting the 3 red balls simultaneously?
- 7) Let ax2 + bx + c = 0

If the sum of the equal roots is equal to the product of the same roots. Then which of the following hold true

- (a) a + b = 0
- (b) a = 0
- (c) c = 0
- (d) b + c = 0
- 8) Find the value of (1.99)2

Ans:3.9601

9)There is a room with 6' x 8'. A 1' tile is fixed along the 4 walls in one row. How many 1" tiles require to finish the work.

Ans. 24 (Question with different value asked).

10) 2 persons can finish a job in 8 days. First person alone can finish the work in 24 days. How many days does the second person take to finish the job?

Ans. 12 days

- 11) In a car wheel, two spokes cover 15 degree. Then for the entire car, how many spokes are there? Ans. 24.
- 12) What is the angle of degree suspended when two hands of clock showing the time 2.30. Ans. 105 degrees
- 13)A person's salary is getting reduced by 20%. What percentage should be added to get back his original salary?

Ans. 25%

- 14) Two persons start at the same point, walk in opposite directions with 5km/hr and 5.5km/hr respectively. What is the distance separated after 2 and half hrs?

 Ans:26.25 (approx)
- 15) A person starts walking at a speed of 5km/hr through half the distance, rest of the distance he covers with a speed 4km/hr. Total time of travel is 9 hours. What is the maximum distance he can cover?

Ans: 40.5km.

16) In a rectangle the length is increased by of the original length . By what proportion should the width be reduced so that the area will be the same?

Ans: 33

17) Find the nth number in the series is 1, -3, 5, -7.____ Ans: (-1)*(2n-1)

18) If a square is formed by the diagonal of the square as an edge, what is the ratio between the area?

Ans: 2

19) A cubical rectangular bar has the dimensions with the ratio 5 : 4 : 3. Its volume is 7500. What is the surface area of the bar?

Ans: 2350

- 20) In a class total 34 students, 16 are have a brother, 15 are have sisters, 9 students don't have either brothers or sisters. Find the number of students having both brother and sisters.
- 21) A batsman scored 1 runs in his 18th innings and that makes his average 18. Find his average upto the 17th innings?

Ans: 19

- 22)The ratio of the length: breadth: height of a cuboid is 5: 4: 3, and the volume is 7500. What will be its surface area?
- 23)3 persons started placementpapers with a capital of Rs.3000 . B invest Rs.600 less than A, C invest Rs.300 less than B. Then what is the share amount of B in a profit of Rs.886? Ans: Rs.265.8
- 24) If 38473ABC(This was not the exact no given) is divisible by 75 what is ABC in the same order.
- 25) Which is the biggest perfect square amongst the following: 15129, 12348, 23716, 20736
- 26) In the series 0, 3, 8, 15, What is the next number?
- 27) X < 0, Y = 0 then what is the possibility that the result is always positive? Ans. $(xy)^2$
- 28) Let ax2 + bx + c = 0

If the sum of the equal roots is equal to the product of the same roots. Then which of the following hold true

- (a) a + b = 0
- (b) a = 0
- (c) c = 0
- (d) a + c = 0
- 29) Find the value of (1.99)2

Ans. 3.9601(dont calc - should be near to 4)

30) There is a room with 6' x 8'. A 1' tile is fixed along the 4 walls in one row. How many 1" tiles require to finish the work.

Ans. 24

31) 2 persons can finish a job in 8 days. First person alone can finish the work in 24 days. How many days does the second person take to finish the job?

Ans. 12 days

- 32) In a car wheel, two spokes cover 15 degree. Then for the entire car, how many spokes are there? Ans. 24.
- 33) What is the angle of degree suspended when two hands of clock showing the time 2.30. Ans. 105 degrees
- 34) A person's salary is getting reduced by 20%. What percentage should be added to get back his original salary?

Ans. 25%

- 35). Two persons start at the same point, walk in opposite directions with 5km/hr and 5.5km/hr respectively. What is the distance separated after 2 and half hrs?

 Ans. 26.25 (approx)
- 36). A person starts walking at a speed of 5km/hr through half the distance, rest of the distance he covers with a speed 4km/hr. Total time of travel is 9 hours. What is the maximum distance he can cover?

Ans. 40km.

37). In a rectangle the length is increased by of the original length . By what proportion should the width be reduced so that the area will be the same?

Ans. 33

- 38). Find the nth number in the series is 1, -3, 5, -7.____ Ans. (-1)*(2n-1)
- 39). If a square is formed by the diagonal of the square as an edge, what is the ratio between the area?

Ans. 2

40). The perimeter of a rhombus is 52 units. One of its diagonal is 24 units. What is its second diagonals length?

Ans. 10

41). A cubical rectangular bar has the dimensions with the ratio 5 : 4 : 3. Its volume is 7500. What is the surface area of the bar?

Ans. 2350

- 42). A persons salary iis decreased by steps of 20%, 15% and 10%. What will be the percentage decrease, if the salary is decreased in a single shot?
- 43). 3 persons started placementpapers with a capital of Rs.3000 . B invest Rs.600 less than A, C invest Rs.300 less than B. Then what is the share amount of B in a profit of Rs.886?

44). 178² -22² (USE (A+B)(A-B))

- 45). $f(x) = x! g(x) = x^10 h(x) = 10^x for large values of x which is greater?$
- 46). f(x) = 1/(1-x) find(f(f(f(x)))
- 47). x+(1/x) = 2.5 find $x^2 + (1/x^2)$

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48). 2<sup>(2^n)</sup> = 256 find 2<sup>(2n)</sup>
49). x=0 y=0 6x+7y=42 find position(lies inside/out/on) of (4,5) in the triangle
50). 22 march 2004 is sunday which year previously did 22 jun became sunday
51). A man walked 30m west 5m south 10m west 35m north to reach tollgate find the dist from start
to gate.
Ans. 50m (use pythogoras)
52). area of square = sum of areas of rect1(41*27) and rect2(41*14). find square side.
Ans. 41
53). find next in series 31,29,31,30,31,?
ans. 30 he!he!he!(they rep jan,feb,mar,.... hit your head)
Walk/Swim thro Coding
54). Input a,b
s=0;
c=a;
d=b;
while(d0)
s=s+c;
d=d-1;
}
Print s
```

for given values of a,b find the output 5questions for different values of a,b