

Hexaware Technical Paper 1

Directions for questions 1-10: Expand the following terms

Ans. Open Database Connectivity.

1. HTML

Ans. Hyper Text Markup Language

2. RISC

Ans. Reduced Instruction Set Computing

3. ASCII

Ans. American Standard Code For Information Interchange

4. ANSI

Ans. American National Standard Institute.

5. XML

Ans. Extended Markup Language

6. FLOPS

Ans. Floating Point Operating Per Second

7. SQL

Ans. Sequential Query Language

8. QBE

Ans. Query By Example

9. ALE

Ans. Address Latch Enable

10. What is lagging in DBMS ?

Ans. Reduced Redundancy.

Directions 12 to 20: For the following questions find the odd man out

11. Unix

OS/2

CMOS

MSDOS

Ans. CMOS

12. Oracle

Informix

Sybase

LISP

Ans. LISP

13.Laser
Inkjet
Dotmatirx
Mouse
Ans. Mouse

14.Dir
Cls
Csh
Copy
Ans. Csh

15.Bit
Byte
Nibble
Digit
Ans. Digit

16. Hard Disk
Floppy Drive
CD ROM
Cache
Ans. Cache

17.SQL
QUEL
QBE
ORACLE
Ans. Oracle

18.C++
JAVA
VC++
PASCAL
Ans. PASCAL

19.Projection Operation
Selection Operation
Intersection
Set Difference Operation
Ans. Intersection

20.Which of the following is a universal gate ?
(a) OR
(b) AND
(c) XOR
(d) NOR
Ans. NOR

21. The default back end of the VB is

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

Ans. Sybase

22. What is meant by Superconductivity?

Ans. No resistance

23. Viscosity

Ans. Friction

24. 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

25. 9's complement of 28

Ans. 71

26. Binary of 58

Ans. 111010

27. Octal of 359

Ans. 547

28. Hexadecimal of 650

Ans. 28A

29. BCD of 18

Ans. 0001 1000

30. BCD of 34.8

Ans. 0011 0100.1000

31. Excess-3 code of 6

Ans. 1001

32. Excess-3 code of 9

Ans. 1100

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

34. Semaphore is used for

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

Ans. a

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

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

Ans. b

36. 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

37. Pick the odd man out

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

Ans. c

38. OS/2 is a

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

Ans. c

39. 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

40. 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

APTITUDE SECTION

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

1. A man of letters

2. A man of straw
3. To be in the air
4. To bite the dust
5. Man of few words
6. Penny wise pound foolish
7. Find the remainder when 333666777888999 divided by 3 or 9 or 11 ?
8. Which is the biggest perfect square amongst the following
15129, 12348, 23716, 20736
9. 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
10. The area of the maximum size of the circle described from the 10 square inch square?
11. In the series 0, 3, 8, 15, __ What is the next number?
12. $X < 0$, $Y > 0$ then what is the possibility that the result is always positive?
Ans. xy
13. 3 red and 4 blue balls are in a basket. A member of PPTeam is drawing balls from the basket.
What is the probability of getting the 3 red balls simultaneously?
14. 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
 - (a) $a + b = 0$
 - (b) $a = 0$
 - (c) $c = 0$
 - (d) $a + c = 0$
15. 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
16. Find the value of $(1.99)^2$
Ans. 3.9601
17. 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

18. 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

19. A 4" cube is painted in all its faces and then it is cut down into 1" blocks. How many 1" blocks are there even without a single face being painted?
Ans. 8

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

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

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

23. The age difference between two brothers is 3 years. After 6 years the ratio between the age is 9:8. What are their ages?
Ans. 21 and 18

24. A person's salary is getting reduced by 20%. What percentage should be added to get back his original salary?
Ans. 25%

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)

26. 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.

27. Initially two cups of same volume are present with milk filled upto $3/5$ th and $4/5$ th 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

28. 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.

29. 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
30. Find the nth number in the series is 1, -3, 5, -7.____
Ans. $(-1)^n(2n-1)$
31. If a square is formed by the diagonal of the square as an edge, what is the ratio between the area?
Ans. 2
32. The perimeter of a rhombus is 52 units. One of its diagonal is 24 units. What is its second diagonal's length?
Ans. 10
33. 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
34. 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.
Ans. 6
35. A batsman scored 18 runs in his 18th innings and that makes his average 18. Find his average upto the 17th innings?
Ans. 19
36. 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 ?
37. A person's salary is decreased by steps of 20%, 15% and 10%. What will be the percentage decrease, if the salary is decreased in a single shot?
38. 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 ?
39. If the circumference of a circle is 100 units, Then what will the length of the arc described by an angle of 20 degree ?
40. 3 persons started placement papers 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

41. supercede and supersede
42. recommend and reccomend
43. superitendent and superitendant
44. separate and seperate
45. succeed and suceed
46. coolly and cooly
47. despair and dispair
48. ridiculous and rediculous
49. indespensible and indepensable
50. tranquility or tranquillity

C TEST

Directions: For the given sample program give the output of the program(30 marks)

```
1. 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;
   }
```