

HCL Sample Paper

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Duration:30min check the answers

QUANTITATIVE APTITUDE

Q.NO.1&2

A FACTORY produces a product (measured in cubic feet) over seven days as per the following schedule:

Day1 Day2 Day3 Day4 Day5 Day6 Day7

150 180 120 250 160 120 150

The finished goods are to be transported to the market by a truck having a capacity of 2000 cubic feet. Any finished goods (ready at the end of the day) retained overnight at the factory will incur a storage cost of rs.5 per cubic foot for each night of storage. The hiring cost for the truck is rs.1000 per day.

1.If the total cost of transportation and storage is to be minimized, the truck should operate on

- (a) 2nd,4th,6th and 7th days
- (b) only the 7th day
- (c) 2nd,4th,5th and 7th days
- (d) only on 4th and 5th days
- (e) none of these

ans:()

2.if the storage cost reduces to re.0.80per cubic foot per night,the truck should operate on

- (a)2nd,4th,5th and 7th days
- (b)only the 7th day
- (c)2nd,4th,5th and 7th days
- (d)only on 4th and 5th days
- (e)none of these

ans:()

3.how many times do the hands of a clock contain a right

angle in a day?

(a)48 (b)44 (c)4 (d)8 (e)none of these ans:()

4. $1 - \frac{1}{3} + \frac{1}{3^2} - \frac{1}{3^3} + \dots$ to infinite

(a) $\frac{2}{3}$ (b) $\frac{3}{5}$ (c) $\frac{3}{4}$ (d) $\frac{4}{5}$ (e)none of these ans:(c)

5. 5 students take a calculus test on which the lowest possible score is 0.&the highest possible score is 100.the students,rahul,aparna,suzy,rohit& shitij, each earned different scores.suzy outscored aparna by 8 points;rohit scored $1\frac{1}{2}$ times what rahul scored&10 points higher than shitiji,who scored 2 points higher than aparna.the second highest ! score was 89.what score did each student achieve on the test?

Rahul-----

Aparna-----

Suzy-----

Rohit-----

Shitiji-----

6.if $a+d=b+c$, $a+e=c+d$, $2cb+d$,then

(a) $a>b>c>d>e$

(b) $b>a>d>c>e$

(c) $d>b>c>a>e$

(d) $b>c>d>e>a$ ans:()

(e) none of these

7.A and B are two stations 330km apart.A train starts from A at 8pm.and travels toward B at 60kmph.another train starts from B at 9pm. And travels towards A at 75 kmph.at what time do they meet?

(a) 11am

(b) 12pm

(c) 11.30am ans:(a)

(d) 11.45am

8.if you have a sixth sense, it may help you to solve this one

6 396 2376 1425.6 8.5536 ?

(a) 4.5536

(b) 2.5536

(c) .513216 ans:(d)

(d) .00513216

9.

20 ? 15

0 18 11

(a) 2

(b) 4

(c) 6

(d) 8 ans:(c)

(e) none of these

10. if $(BE)^2 = MPB$ and the letters B, E, P and M stand for distinct digits, then M equals:

- (a) 1
- (b) 6
- (c) 3 ans: (c)
- (d) 9
- (e) 5

DATA SUFFICIENCY

Direction: Read the following instructions carefully and answer questions 11-15 given below:

Each question below is followed by two numbered facts. You have to determine whether the data given in the statement is sufficient for answering the question. Choose one of the following choices best fitting the question and mark A, B, C, D or E as explained below.

(A) if statement 1 alone is sufficient to answer the question, but statement 2 is not sufficient.

(B) If statement 2 alone is sufficient to answer the question, but statement 1 is not sufficient.

(C) If both statements together are needed to answer the question, but neither statement alone is sufficient.

(D) If either statement by itself is sufficient to answer the question.

(E) If enough facts are not available to answer the question.

11. Is $X = Y$?

(1) $X - Y = X^2 - Y^2$ ans: ()

(2) X and Y are greater than 1.

12. Is CAB a code word in language Q?

(1) ABC is the base word.

(2) If c immediately follows B, then C can be moved to the front of the code word to generate another word?

ans: ()

13. A dress was initially listed at a price that would have given the store a profit of 20 percent of the wholesale cost. What was the wholesale cost of the dress?

(1) After reducing the asking price by 10 percent, the dress sold for a net profit of 10 dollars.

(2) The dress sold for 50 dollars.

ans: ()

14. If X and Y do not equal 0, is X/Y an integer?

(1) X is prime

(2) Y is even ans: ()

15. What is the price of a banana?

- (a) 14 banana and 35 oranges cost Rs. 84
(b) with a 50% discount on banana, Rs. 12 can buy 4 bananas and 5 oranges.

ans:()

Analytical Reasoning

In a game, exactly six inverted cups stand side by side in a straight line, and each has exactly one ball hidden under it. The cups are numbered consecutively 1 through 6. Each of the balls is painted a single solid color. The colors of the balls are green, magenta, orange, purple, red and yellow. The balls have been hidden under the cups in a manner that conforms to the following conditions:

The purple ball must be hidden under a lower-numbered cup than the orange ball. The red ball must be hidden under a cup immediately adjacent to the cup under which the magenta ball is hidden.

The green ball must be hidden under cup 5.

16. Which of the following could be the colors of the balls under the cups, in order from 1 through 6?

- (a) Green, yellow, magenta, red, purple, orange
(b) Magenta, green, purple, red, orange, yellow
(c) magenta, red, purple, yellow, green, orange
(d) orange, yellow, red, magenta, green, purple
(e) red, purple, magenta, yellow, green, orange

ans:()

17. A ball of which of the following colors could be under cup 6?

- (a) Green
(b) Magenta
(c) purple
(d) red
(e) yellow ans:()

18. If the purple ball is under cup 4, the orange ball must be under

- (a) 1
(b) 2
(c) 3
(d) 5
(e) 6 ans:()

19. Which of the following must be true ?

- (a) The green ball is under a lower-numbered cup than the yellow ball.
(b) The orange ball is under a lower-numbered cup than the

green ball.

(c) The purple ball is under a lower - numbered cup than the red ball.

(d) The purple ball is under a lower - numbered cup than the red ball.

(e) The red ball is under a lower - numbered cup than the yellow ball.

ans:()

20. If the orange ball is under cup 2, balls of which of the following colors could be under cups immediately adjacent to each other ?

(a) Green and Magenta

(b) Green and Purple

(c) orange and Yellow

(d) purple and Red

(e) red and Yellow

ans:()

A company manufactures game sets in brass, ebony(wood), and teak (wood). Each game set consists of the following components: chessmen, checkers, dice and a box which opens into a board, a chess layout being on the outside and backgammon on the inside. The game sets are called # 1, # 2, #3, # 4 and # 5 in the company's catalog.

In a#1 set, only the chessmen, checkers, and dice are brass.

In a#2 set, only the chessmen and dice are brass.

In a#3 set, only the checkers and box are brass.

In a#4 set, only the box is brass.

In a#5 set, all components are brass.

21. Which of the following components CANNOT both be wooden in a single set ?

(a) Chessmen, dice

(b) Chessmen, box

(c) chessmen, checkers

(d) checkers, dice

(e) checkers, box

ans:()

22. A set in which, of the chessmen, checkers, and dice, exactly one is brass, must represent set

(a) # 1

(b) # 2

(c) # 3

(d) # 4

(e) # 5

ans:()

Five persons A,B,C,D and E were travelling in a car. There

were two ladies in the group. Of the three who knew car driving, one was a lady. There was one couple, of which only the wife could drive the car. A! is the brother of D. B wife of D, B wife of D, drove at the beginning. E drove at the end.

23. Which of the following is a pair of brothers?

- (a) AB
- (b) AD
- (c) DE
- (d) AE
- (e) none of the above

ans:(b)

24. Who was the other lady in the group?

- (a) E
- (b) D
- (c) C
- (d) Data inadequate
- (e) None of these

ans:(c)

25. A man said to a woman. "Your only brother's son is my wife's brother". How is the woman related to the man's wife?

- (a) Mother
- (b) Aunt
- (c) Sister
- (d) Cannot be determined
- (e) None of these

ans:(b)

I-Flex

jadavpur university, on 21st may, 2001.

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qn will be in three parts

1st part- 40 qns

2nd part- 30 qns

3rd part - 20 qns

there are 5 choices in each qn- 1 2 3 4 5

here is the qn of arithmetic which are not in order.

1. square root(x)/3 = 243/x value of x ???? ans. 81

2. qn from loss and ga! in what is the net profit ????? ans. 25 percent

3. if + sign is represented as /, - as *(into, not power do not confuse),
* as - and / as + then what will be the value of
(480+20*20)-16 /12 ???
ans. 76

4. which of the following will come next in the series
IAR, GET, EIV, COX ans. AUZ

5. B is in DOUBT in the same way H is in
choices.... HOPE, HOUSE, HONEST, INHIBIT ans.
HOUSE(confirm it i am not sure)

6. if P+Q represents P is the sister of Q, P-Q represents P
is the father of Q and P*Q represents P is the brother
of Q then which will represent K is the aunt of N

ans. K+Q-M*N

7. In a class puspa ranks 8th from top and 28th from
bottom. how many students are there in the class????
ans. 35

8. 23 percent of a no is 230, 4/23rd of the number is ??????
ans. none of these

9. sum of a number and its one third = 60, 4/5th of the
number is ????? ans. 36

10. if A to Z is written in the reverse order which! is the
5th letter to the right of the 11th letter from the left????
ans. K

11. In a rectangle length = twice that of breadth, cost of
grounding is 60 rupees per meter, total cost is 3600/-
what is the length in meter???????? ans. 20

12. qn on sequences

which will come next??

11 13 17 23 31 ? 53 67 ans. 41

13. 18 27 64 125 ? 343 512 ans. 216

14. 2 3 10 15 26 ? 50 63 ans. please find out

15. 0 2 10 30 68 ? - - (cannot recall) please find out

16. if simon is taller than A, A is shorter than gayatri, sharat is taller than..... ans. gayatri

17. If a 100m train crosses a platform of 75m in 7.5 secs, another train of 120m coming opposite, how much time it takes the first train to cross the second one .. ans. none of these

18. Telegram system, 1st 15 words in x rupees, next per letter in y rupees, if $z > 15$ what is the total cost of c?????? ans. $x+(z-15)*y$

19.

a! nother st line cuts this in two angles, one is $4x+36$ degs and another is y degs , what is the value of x????? ans. $(144-y)/4$

20. If 6 is preceded by 8 but not followed by 9 immediately, how many..... ans. 2

21. in the letter PREDILECTION , 1st and 3rd is swapped, so is 2nd and 4th, 5th and 7th, 6th and 8th what will be 8th letter from left?????? ans. L

22. If rup ho la represents anand is fat
cup wir ho represents mina is tall
la dup mil represents boys are fat
and wir lar nap represents tall and fat

what reprens mina ?????? ans. cup

23. If SINDHU is written as VIEOJT, SURESH is written as?????? ans. none of these

24. if hit----> one rupee gain and miss-----> one rupee loss, one can try 100 times, he got total 30/-, how many hit????????? ans. 65

25. In a circle, G is to the left of M, V is to the right of M, R is to the right of V, A is to the right of R, G is to the right of A and M is to the right of G, swap the position of G and R, V and A then who will be to the left of M

ans. R

26. there was a histogram qn. given the capitals of 5 companies for the academic year 1995-2000, find out

a> which company will increase its capital consistently???

b> Average capital in the yr 1998?????

c> average of company 2nd?????

d> which company increases its capital by 10% at 1998 from that of 1995

data were 42.0 in 1995 and 46.20 in 1998 this company is the correct answer.....

e> what is the max. o/p in a yr, ans.. try to sum all the cols and find the max.

this were easy, i can not remeber u have to do it fast.

27. there was a qn on flowchart, which was easy, i can not recall exactly.

28. in english u have to find out errors in 5 fragments of a sentence (GRE patrn) which were easy, 4 qns, and fill in the blanks which were extremely difficult(4 qns) read Barron's guide

also there was a long passage wh! ich attempt at last, this was in qn no from 16-20, if it is answer of 18 is choice 2, 19 is 2 and that of 20 is 3

***** i am sending the answer of some of the qns, the qn will be in order, do not fear

test- 1

1- 5, 2- 1, 3-5, 4- 4, 5- 3, 6- 1, 8- 5, 9- 5, 10- 4, 11- 2, 12- 1, 15- 5, 16- 1, 18- 3, 19- 3, 20- 5

26- 1, 17- 4, 28- 5, 29- 3, 30- 3 (qn no - choice)

test -3

1- 3, 2- 4, 3- 2, 4- 2, 5- 2, 6- 1, 7- 2, 8- 1, 18- 2, 19- 2, 20- 3