

# Caterpillar Sample Placement Paper

Verbal:

1. Synonym: pontificate. (Talk in a dogmatic and pompous manner)
2. Antonym: loquacious. (Means Full of trivial conversation)
3. Analogies: Whiff: scent Birds: anthropology (doubtful) Generator: Current.

vacillate :resolution as diobey :order...

4. odd man out: iconoclast,hyperbole,exaggeration amused ,bemused, preoccupied  
mural,nostalgia,dream

General Awareness:

1. Myopia
2. Scurvy
3. Montagu-chelmsford reforms
4. How can you remove the president from his office?
5. Minimum age for a person to be eligible to become a president.
6. Who can preside over the meetings of both the sabhas but still cannot vote?
7. regional army command is commanded by
8. strength of defence personal is 10 lakhs ,12lk,15,lk
9. mirage 2000 aircraft is from which contry
10. broad gauge 1.67m,2m,1.83m
11. production of steam locomotives stopped from year
12. first presidensy ban in which city,Chennai,Mumbai,Calcutta,delhi
13. export import bank started in yr

14. what % of Re,1 coins in Indian currency
15. what earns more foreign money,tea,jute...
16. strength of indian army.
17. who commands the regional army.
18. mirage bought from ans:france
19. inflation occurs due to (increase in money)
20. from where india get max for exchange.(jute,iron steel,sugar,tea)
21. % of 1 rupee coin in total indian currency.

Tech:

- 1.Which of the following uses consumable electrodes.(I believe the options were MIG,TIG and stuff like that)
- 2.Alloy used in the manufacture of surgical instruments.
3. Uses of superconductors.
- 4.Four questions from IC engines :
  - a. For a given compression ratio the efficiency of Otto cycle>Diesel cycle.(Is this right?)
  - b. Turning moment diagram for compression stroke of IC engine.
5. What path does double slider crank mechanism follows. (Check if it is Elliptical).
- 6.Ratio between Brake horse power to the energy supplied.
7. Two emfs  $E_1$  and  $E_2$  are given. Among two lengths one is given. Be clear with the relation between ratio of emfs to the lengths across.

anodizing

honing

thermoplastic

if fine powder is added to metal soln,it forms single crystal/ refines grains

function of draft allowance in moulding

if various sizes ,hp....etc of engines r to be tested the which measure is taken a.a/f ratio

b.swept vol etc

value of pressure used in elec resistance welding

up milling

down milling

one of the tool angles definition is give \n choose

hammer blow

pump in sewage

pump in oil

heat trnfer based oin which thdy law

sum usin thermal coeff of exp to fin stress

porytion hot in refridegeration

spinning causes bending or bending and stretching or..

critical speed of a shaft is affected by

starting friction is low in

ht transfer is based on which law(zeroth,first,2nd,kirchoff)

in refreragation where will temp be max?ans:between compres and condenser

stoichiometric AF ratio is (chemically correct mixture by wt,ans:chemically correct mixture by efficiency)

anodidising is

how will u compute performance of desel eng?ans:bsfc

how will u pump sewagw water ie which pump?

how will u pump viscous fluid?

honing process:

if thread angle is increased (mechanical adv decreases)

principal plane condition:(shear stress 0,normal stress max)

if refrigerator is opened in a room ,fan is also on.what will happen to room temp?

graft in casting

how will u improve resistance

Quantitative:

1.Two trains are travelling between two stations at a constant speed of 25kmph.The stations are 50km apart .A bird traveling at 100kmph starts its flight along with one train and travels in the same direction until it meets the other train. It changes its direction and goes in the reverse direction until it meets the initial train. Find the distance travelled by the bird before the two trains collide.

2.A flight carrying food packets is flying at a height of 1960m from the ground. The speed of the flight is given. Find the time taken for a food packet dropped at that instance to hit the ground.

(Hint: Use  $s=ut+(at^2)/2$ .Initial velocity as 0 coz the dropped food packet does not have velocity in the vertical direction.)

when a square is constructed on 3 sides of a triangle ,their sides are in the ratio 1:3:4,THE WAT

triangle is it

$x^2 + y^2 = 45, xy = 18$ , then  $1/x + 1/y =$

$x - 11/x > 13/15$ , then  $x =$

in race 100m, b bet c by 25m. a bet b by 20m. then a will beat c by what metres

5 tables and 10 chairs were sold for 20000. 15% gain for table, 10% loss on chair. overall profit rs 750. the cp of table is

a man rows in still water in 9kmph in 2hr. if upstrm vel is 2times down, then find speed of stream

h: base dia of a cone is 3:2. icecream is filled usig hemisph scoop whose half part is inside cone. if total length of icecrem is 36 cm, find vol of icecream

a, b, c complete work in 4 days. a & b finifh in 7 days. time for c is & similar sums

length of line perpenti to given line eqn

avg of 5 playrs is x. addition of 6th player increases avg by 2. add od 7thplyr decreases avg by 2. runs of 7th plyr is

if 500 more cows r there then each cow gets 40% less hay. the no of cows is

value of gold is increasing by 11%. if present value is 10000, then value before 2 months is

venn diagram verbal sum

an amount doubles in 5 yrs due to SI. wat will be the value of the amt. in 13yrs 9 months if princi is adden every year

first  $a = I$

vauve of a sqre is assigner to b

$c = b + 1$

if sqrt of  $c > 50$  terminate, else goto beginning

wat is the last value of c

22. sum of sqr of 2 nos is 45, prod is 18 find the sum of the reciprocals.

23. labour sum(6 days)

24. Cows consume hay. 500 more cows decreases the hay by 40% per head. find the no of cows.