# Tech Mahindra Aptitude  Paper 2008

Aptitude:-

1. If a boat is moving in upstream with velocity of 14km/hr and goes downstream with a velocity of 40km/hr. then what is the speed of the stream?
(a) 13km/hr
(b) 26km/hr
(c) 34km/hr
(d) none of these

Ans: A

2. find the value of (0.75*0.75*0.75-0.001)/(0.75*0.75-0.75+0.01)
(a) 0.845
(b) 1.908
(c) 2.312
(d) 0.001

Ans: A

3. A man buys 12 lts of liquid which contain 20% of the liquid and the rest is water. He then mixes it with 10lts of another mixture with 30% of liquid. What is the % of water in the new mixture?

4.A certain number of men can finish a piece of work in 10 days. If however there were 10 men less it will take 10days more for the work to be finished. How many men were there originally?

(a) 110 men
(b) 130 men
(c) 100 men
(d) none of these

ans:- A

5. In simple interest what sum amount of Rs. 1120/- in 4 years and Rs.1200/- in 5 years?

(a) Rs.500
(b) Rs.600
(c) Rs.800
(d) Rs.900

6. x% of y is y% of?

(a) x/y
(b) 2y
(c) x
(d) can't be determined

ans: C

7. The population of a city increases @ 4%p.a. there is an additional annual increases of 4% of the population due to the influx of job seekers. Find the % increase in population after 2 years?

8. The ratio of the number of boys and girls in a school is 3:2. Out of these 10% the boys and 25% of girls are scholarship holders. % of students who are not scholarship holders?

9. A rectangular plant $(2)^{1/2}$ meters wide can be placed so that it is on either side of the diagonal of a square shown below. (Figure is available). what
is the area of the Plank?

ans: $7*(2)^{1/2}$.

Logical Reasoning:

1. a,c,e,g..

(a) h
(b)i
(c)d
(d)j

Ans: b

2. a,e,i,m,q,u_,_

(a) y,e
(b) b,f
(c) g,i
(d) none

3. 1,2,3,5,7,11….

(a) 15
(b) 9
(c)13
(d)12

ans: c(Series of prime no)

4. 1,3,4,8,15,27,…

(a) 60
(b)59
(c)43
(d)50

5.All pens are elephants. some elephants are cats.

(a) Some pens are cats
(b) No pens are cats
(c) All pens are cats
(d) None of the above

6. Some green are blue. No blue are white.

(a) No green are white
(b) Some green are white
(c) No green are white
(d) None of the above

ans: b