Tech Mahindra Sample Question Papers 2

1. Which of the following statement(s) is(are) not true
    a. Literate workers have small families than illiterate workers.
    b. Families with 2 or less than 2 children are commoner than families with 3 or more children.
    c. 2 children families constitute 60% of the families of workers.
    d. More the no. of children a worker has the more illiterate he is.
    e. None the above statement is true. Ans : e

2. Of a mutual instrument vibrate 6,8 & 12 intervals respectively. If all three vibrate together what is the time interval before all vibrate together again? Ans : 1/2 sec HCF of DR

3. Certain no. of men can finish a piece of work in 10 days. If however there were 10 men less it will take 10 days more for the work to be finished. How many men were there originally. Ans : 110 men

4. In simple interest what sum amounts of Rs.1120/- in 4 years and Rs.1200/- in 5 years. Ans : Rs.800/-
    Sum of money at compound interest amounts of thrice itself in 3 years. In how many years will it take 9 times itself. Ans : 6

5. Two trains in the same direction at 50 & 32 kmph respectively. A man in the slower train observes the 15 seconds elapse before the faster train completely passes him. What is the length of faster train ? Ans : 75m
    How many mashes are there in a sq. m of wire gauge. Each mesh being 8mm long X 5mm width
    Ans : 25000

6. x% of y is y% of ? Ans : x

7. The price of sugar increases by 20%, by what % house-wife should reduce the consumption of sugar so that expenditure on sugar can be same as before Ans : 16.66

8. A man spending half of his salary for house hold expenses, 1/4th for rent, 1/5th for travel expenses, a man deposits the rest in a bank. If his monthly deposits in the bank amount 50. What is his monthly salary ?
    Ans : 1000

9. The population of a city increases @ 4% p.a. That is an additioanl annual increase of 4% of the population due to this influx of job seekers, the % increase in population after 2 years is

10. The ratio of no. of boys & girls in a school is 3:2 Out of these ?% the boys & 25% of girls are scholarship holders. % of students who are not scholarship holders.?

11. 15 Men take 21 days of 8 hrs. each to do a piece of work. How many days of 6 hrs. each would do if 21 women take. If 3 women do as much work of 2 men. Ans : 30

12. A cylinder ingot 6cms in diameter and 6 cms in height is and spheres all of the same size are made from the material obtained.what is the diameter of each sphere? Ans :3cms

13. Rectangular plank of sqrt(2)meters wide can be placed so that it is on either side of the diagonal of a square shown below.what is the area of the plank? Ans :7sqrt(2) fig no-

14. The difference b/w the compound interest payble half yearly and the simple interest on a certain sum cont out at 10% p.a for 1 year is Rs 25 what is the sum Ans:10,000

15. what is the smallest n0 by which 2880 must be divided in order to make it a perfect square ?
a)3 b)4 c)5 d) 6 e)8 Ans: 3

16. A father is 30 times more than his son however he will be only thrice as old as the son what is father's present age ?Ans : 40

17. An article sold at a profit of 20% if both the c.p & s.p were tobe Rs.20/- the profit would be 10% more. What is the c.p of that article? Ans : 1% loss

18. How can a process be started automatically in UNIX ? ANS : Through CRONTAB { options were crontab, inittab, and two more }

19. What is the meaning of run level 6 ? ANS. Reboot

20. How can you determine which file has generated the CORE ?
Options were..
1.ps -ef | grep core
2.ps -ef | grep <executable file name > Freshersworld.com
3.pfile core
4.filec core

21. Diff.between inlinefunction((++)-macns(c)

22. 3 to 4 questions on conditional operator :?:

23. Write a macro for sqaring no.

24. Trees -3 noded tree (4 to 5 questions fundamentals) Maximum possible no.of arrnging these nodes

25. Arrange the nodes in depth first order breadth first order

26. Linked lists Q) Given two statments

27. Allocating memory dynamiccaly

28. Arrays Tree the above both and find the mistake

29. Pointers (7 to 8 questions) Schaum series Pointer to functions, to arrays 4 statements
    ->meaning,syntax for another 4 statements

30. Booting-def(When you on the system the process that takes place is ------

31. Type of global variable can be accessible from any where in the working environment (external global variable)

32. Which of the following can be accessed randomly Ans. a. one way linked list
    b. two way "
    c. Arrays
    d. Trees

33. Write a class for a cycle purchase(data items req.)