

NIIT Placement Paper February 2011:-
1. what is the highest power of 3 in 200!?
1.97 2.197 3.65 4,82
2. In a kilometer race, A beats B by 200 mtr and C by 360 mtr.In a race of 500 mtr by how many metres does B beat C?
1.80 2.200 3.100 4.160
3. Pipe A can fill a tank in 6hrs.due to leak at bottom it takes 9 hours to fill the tank.In what time the leak alone can empty the full tank?
1.16 2.15 3.18 4.17
Ans: 18 hours
4. In how many seconds does a 180m long train moving at 108kmph cross a platform of length 150 mtr?
1.11 sec 2.9sec 3.8sec 4.7sec
Ans: distance=180+150=330 mtr speed=108*5/18=30 m/s =330/30 = 11 sec

5. What is the total surface area of the hemisphere, whose radius is 10.5cm?

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1.1049.5
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2.1039.5

3.999.5

4.1085.5

6. 5 persons are sitting in a round table in such a way that the tallest person always sits next to the smallest person?

Ans: Keep tallest and smallest person as 1 we have (4-1)! = 6 the tallest and the smallest person can be interchanged = 2 = 12

7. A car covers 4 successive 3km stretches at speed of 10kmph,20kmph,30kmph&:60kmph resp. Its average speed is?

- 1.20
- 2.20
- 3.30
- 4.40

Ans: 20; total distance = 4 * 3 = 12 km total time = 3/10 + 3/20 + 3/30 + 3/60 = 36/60 hr speed = 12/36 * 60 = 20 kmph

8.By selling 99 pens, a trader gains the cost of 33 pens. find his gain percentage?

- 1.33 1/3%
- 2.66 2/3%
- 3.50%
- 4.75%

Ans:33 1/3%

9.How many kgs of Basmati rice costing Rs.42/kg should a shopkeeper mix with 25 kgs of ordinary rice costing Rs.24 per kg so that he makes a profit of 25% on selling the mixture at Rs.40/kg?

Ans: Let the amount of Basmati rice being mixed be x kgs. As the trader makes 25% profit by selling the mixture at Rs.40/kg, his cost /kg of the mixture = Rs.32/kg (x * 42) + (25 * 24) = 32 (x + 25)

$$42x + 600 = 32x + 800$$

$$10x = 200 \text{ or } x = 20 \text{ kgs}$$

10. A certain sum of money amounts to Rs1125 in 5 years and to Rs1200 in 8 years. Find the sum and the rate of interest.

Ans: In 3 years more years, the interest is Rs75.

So in 1 year, the interest is Rs25 & in 5 years the interest is Rs125.

Sum +5 years interest= Rs1125. So the sum is Rs1000.

And the rate of interest is 25/1000*100 i.e.2.5% p.a.

11. A, Band C started a business by investing Rs 2,20,000, Rs 3,50,000 and Rs 4,50,000. Find the share out of an annual profit of Rs 10200?

Ans: Their profits 22:35:45

share of A = 22/102*10200 = 2200

share of B = 35/102*10200 = 3500

share of C = 45/102*10200 = 4500

12.3 numbers have an average of 30.if the two numbers are 14 and 28.third number is?

Ans :sum of 3 numbers = 3*30 = 90.

third no = 90-(14+28)=48

13. If there are 6 arithmetic means between 5 and 33 then common difference is?

Ans: d=b-a/n+1 d=33-5/6+1

d=4

14.In a geometric progression, the first term and the common ratio are both equal to 2.find the fourth term.

- 1.16
- 2.18
- 3.8
- 4.26

Ans: 16

15. 14 men can do a work in 5 days working 4 hours a day. In how how many days can 7 men do the same work, working in 10 hours a day?

- 1.4
- 2.8
- 3.12
- 4.16

Ans: m1*d1*h1= m2*d2*h2

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*5*4=7*10*d2
d2=4 days
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16. .A bag contains a total of 90 coins in the form of 20 paise and 25 paise coins. If the total value of coins in the bag is Rs.21, find the no of 25 paise coins in the bag?

1.60

2.55

3.65

4.70

Ans:60

17. Ten years ago, the age of anand was one third the age of bala at that time, the present age of bala is 12 years more than the present age of anand. Find the present age of anand?

1.16

2.18

3.20

4.22

Ans:16

18. The Present ages of A & B are in the ratio of 9:7. 13 years ago their ages were in the ratio 25:18. What is the difference of their ages?

1.14

2.16

3.18

4.20

Ans:
$$(25-18)*13/(25*7-9*18) = 7$$

difference = $(9-7)*7 = 14$ yrs

19. The sum of a two digit number and the number formed by reversing its digits is 110. if the tens digit is 2 more than the units digit. find the number?

1.64

2.46

3.24

4.42

Ans:10a+b+10b+a=110 11a+11b=110 a+b=10

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a=2+b
a-b=2
solving, a+b=10 & a-b=2
a=6 and b=4
No is 64
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20. Ajay and sita are two of Mr.kumars sons.ajay has half as many brothers as sisters.sita has as many brothers as sisters.Find the number of children Mr.kumar has ?

- 1.7
- 2.8
- 3.6
- 4.9

Ans: 7