Patni Sample Test Paper

1. square root of(PQ)=8 then 4 options
Ans:p+q =1: is not possible

2. equilateral triangle of side 10 units. cow is teethered with a rope of length 7 units at one of the vertex. Find the area of the field grazed. ans-77/3

3. Series till 50 terms: 2+3-5 +2+3-5+.... ans:5

4. when x is diveded by 299 remainder is 100. then when x is divided by 23 remainder is ? ans:8

5. there r 2 groups A and B. A boy goes from gp A to gp B. When he goes the ave wt of both the gps A and B increases. Then? ans:ave wt of gp A>wt of boy is>ave wt of gp B

6. (7^2)^3 and 7^2^3. What is the relation between the 2 . ie >,<,= ans-(7^2)^3<7^2^3.

7. Train speed 36kph. Dist travelled in 3minutes in meters ans-1800m

8. with the digits 1,2,3,4,5,6 make all 6 digit nos which r not divisible by 5. The no of such 6 digit nos is ans:600

9. x 2.5 3.5 1.5
y25 49 9 then what is the relation between x and y
ans:y is directly proportional to (2x)^2

10. 18kg of fresh grapes have 90% water. dry grapes have 20% water. then the weight of the dry grapes is ans:2.25kg

11. population is 20000. Pop increases by 10% every year, then the pop after 3 years is? ans-26620

12. Dist bet 2 places A and B is given. A man P starts from place A at 9 pm and another man Q goes from B at 10pm . Speed of Q is double of that of P. Both cover 1/4 dist in the same time interval. then A travels the entire dist in time ? ans:8hrs

13. Entry fee is Re1. There r 3 rides each is of Re1. Total boys entering is 3000. Total income is Rs 7200. 800 students do all the 3 rides. 1400 go for atleast 2 rides. None go the same ride twice. Then no of students who do not go any ride is
ans:1400 (check-1000)

14. 1,23,45,67... ans:-89

15. m is div by 5, n is div by 5 ,m-n is div by 5 m*n is div by 25
ans:then m+n is not div by 10

16. Cube of side 5 cms is fully painted in alll the 6 sides. it is then cut into cubes each of side 1 cms. then prob that 2 sides r
painted is ans:36/125

17. A is 25% bigger than B B is 20% less than C then the relation bet A, B, C ans 5:4:5

18. A cone and a sphere have the same radius. and in the cone we put the sphere then how much of sphere will be inside the cone
a)1/2 b)>1/2 c)<1/2 ans d)1/4

19. there r 5 papers Ratio of marks obtained in each subject is 6:7:8:9:10. Total marks obtained is 60%. 50% is pass marks. In how many subjects did he get above 50%. ans:4

20. which one is not correct a)cube rootof 343.
b)3.24 is not an integer Ans:none of these

21. A and B r 2 men who enter into business and they invest Rs 1000, Rs 2000resp. How will they divide the income of Rs 5000 .ans 5000/3 & 5000(2/3)

22. 9C2 + 9C3 +10C4=? ans 11c4

23. 10^23-7 is divided by 6, remainder is? ans-3

24. if x+y+z =1. then xy+yz+zx is
a)<1/2 ans b)>1/2 c)=1/2

25. .nos from 1 to 100.
a)find all the nos which r divisble by 3,9,27 --33
b)at least 2 --11
c) only 2 --8
d) none --67

26. 3 balls inside a bag having nos on it written 1 , 2, 3 on it. a ball is taken and then put inside it. Find probability that all
3 nos r the same when it is taken 3 times ans-1/27

27. 15c6+15c7+16c8=== 17cx ans- x== 8 or 9.

28. three men invested sum. and their ratio is 5:7:6. profit is 5400.then b's share ans--2100

29. sum of all 5 digit nos formed using 1,3,5,7,9. ans---6666600
(11111+33333+55555+77777+99999)*24. each digit occupies all the places for 24 times.

30. x and y even nos. x>y which is even. a)x+y b)x-y c) 2x/y (not)

31. 1/2 divived by 1/2 of 1/2) whole divided by 1/2 +1/2 of 1/2
ans----- 2 2/3. or 8/3.

32. trees of heights 30 and 40 sepatated by a river. fish in the river is at equal dis from top of the trees where two birds r
there.ratio of the distances from fish to the root of the tress
ans---4:3.

33. three cones (r=r,l=2r)are arranged upright so that each cone is in contact with other two .and a circle is formed passing
through its vertices. what will be its radius. ans 2r/sqrt(3)

34. What number must be added to 1/x to make it equal to x. Ans. (x2-1)x

35. Some pen bought something at loss for Rs 60.He then sold it the price of 81 and his profit was 20% of the loss.At what price did he buy the object. Ans. calculate. ans-77.50

36. one disk of 20cm radius, out of that 4 disk of 5cm are cut , find diffrence of leftout and cut out area:ans-200pi

37. (X)+(1/x)=3 then (xsquare) + 1/(xsquare) = ??ANS-7

38. a box contain 4 small bos, each small box again contain 3 box,again these box contain 2 box . total how many boxes ANS-1+4+12+24=41

39. between 100 to 200 how many no are divisible by both 3 and 2 and 100,200 are inclusive? ans-68

40. How many two digit no you make by 1,2,3,4,0 Ans=16 because 0 is not in the 10th place.

41. (25...) 32 and (25....)31 in both cases 6 in the last position. What should be in the blanks? Ans 6

42. In a GD there is no restriction in saying something between the participants. A, B, C, D, E be the participant. What's is probability to say B before A. i) 20%, ii) 40%, iii) 50%, iv) none of these. Ans. 50%.

43. You have only 1 kg weight. You have to weight 31kg. Min number of measurements you have to done. Ans. 5 as 1+2+4+8+16=31.

44. Min (a, b, c)=min of a, b, c Max (a, b, c,)=max of a, b, c then what is the value of MAX {min (2,5,7), max (-7, -2, -3), 3}. ans-3

45. The product of two consecutive odd no is -1, then what is the value of the sum of them. Ans. 0 as -1*1 becomes -1.

46. Few years ago on 31st January on her 26th birthday a lady laid a baby. Now what's the sum of their ages? i) 37, ii) 38, iii) 43, iv) 51. I am confused about the answer. It may be any even no. as (26+x)+x. So I think it are 38.

47. 81*82*83*84*85*86*87*89. What should be in the unit place in this product?
Ans. It must be 0 as 5*2=10

48. In a company ones salary increases 6/5 times in every year. After 4 year of joining average salary is 1342. Then what's the starting salary of the company? A) 900, b) 1000, c) 1100, d) 1200. Ans.= 1000

49. Perimeter of an equilateral and isosceles is 45 and 40 respectively. At least one of the sides of isosceles is equal to the equilateral. What's the base of isosceles triangle? Ans. 10. As. 45/3=15. 15+15+10=40.

50. Two people P Q start a race in a circular track in opposite way different but constant speed. First they meet 900m cw from the starting pt. Then they meet 800m ccw from the starting pt. What's the circumference of the circle.
ans-2600m