



S.S.C. Multi Tasking(Non-Technical)

Held on: 20-02-2011 Based on Memory

PART II NUMERICAL APTITUDE

26. The units digit of the expression $25^{6251} + 36^{528} + 73^{54}$ is
1. 6
 2. 5
 3. 4
 4. 0
27. Simplify:
- $$\frac{\frac{1}{3} + \frac{1}{4} \left[\frac{2}{5} - \frac{1}{2} \right]}{1\frac{2}{3} \text{ of } \frac{3}{4} - \frac{3}{4} \text{ of } \frac{4}{5}}$$
1. $\frac{37}{78}$
 2. $\frac{37}{13}$
 3. $\frac{74}{78}$
 4. $\frac{74}{13}$
28. The sum of the square of 3 consecutive positive numbers is 365. The sum of the numbers is
1. 30
 2. 33
 3. 36
 4. 45
29. In a division sum, the divisor is 10 times the quotient and 5 times the remainder. If the remainder is 46, then the dividend is
1. 4236
 2. 4306
 3. 4336
 4. 5336
30. A is thrice as good a workman as B and therefore is able to finish a job in 40 days less than B. Working together, they can do it in
1. 14 days
 2. 13 days
 3. 20 days
 4. 15 days
31. The LCM of two numbers is 4 times their HCF. The sum of LCM and HCF is 125. If one of the numbers is 100, then the other number is
1. 5
 2. 25
 3. 100
 4. 125
32. $\frac{1}{3-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}}$
 $+ \frac{1}{\sqrt{5}-\sqrt{2}}$ is equal to
1. 5
 2. 3
 3. 1
 4. 0



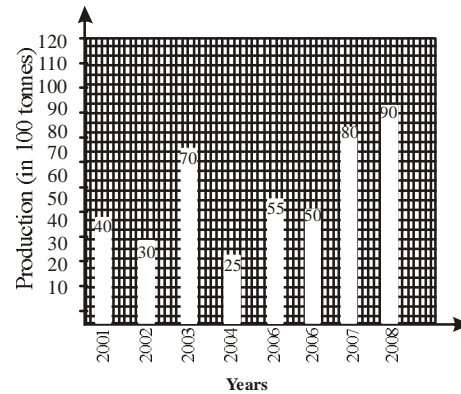
Multitasking

33. A and B can do a piece of work in 8 days, B and C can do it in 24 days, while C and A can do it in $8\frac{4}{7}$ days.
- In how many days can C do it alone?
1. 60 2. 40
3. 30 4. 10
34. A sphere and cube have equal surface areas. The ratio of the volume of the sphere to that of the cube is
1. $\sqrt{\pi}:\sqrt{6}$ 2. $\sqrt{6}:\sqrt{\pi}$
3. $\sqrt{2}:\sqrt{\pi}$ 4. $\sqrt{\pi}:3$
35. The difference between a discount of 35% and two successive discounts of 20% on a certain bill was Rs. 22. The amount of the bill was
1. Rs. 200 2. Rs. 220
3. Rs. 1,100 4. Rs. 2,220
36. In measuring the side of a rectangle, there is an excess of 5% on one side and 2% deficit on the other. Then the error percent in the area is
1. 3.3 2. 3.0
3. 2.9 4. 2.7
37. An equilateral triangle and regular hexagon have the same perimeter. The ratio of the area of the triangle to that of the hexagon is
1. 3:2 2. 2:3
3. 1:2 4. 1:4
38. The average of three numbers is 135. The largest number is 195 and the difference between the order two is 20. The smallest number is
1. 65 2. 95
3. 105 4. 115
39. If I purchased 11 books for Rs. 100 and sold 10 books for Rs. 110, the percentage of profit per book sold is
1. 10 2. 11.5
3. 17.3 4. 21
40. Ratio between the monthly income of A and B is 9 : 8 and the ratio between their expenditures is 8 : 7. If they save Rs. 500 each, find A's monthly income.
1. Rs. 3,500 2. Rs. 4,000
3. Rs. 4,500 4. Rs. 5,000
41. If $x : y = 3 : 4$, then the value of $\frac{5x-2y}{7x+2y} =$
1. $\frac{7}{25}$ 2. $\frac{7}{23}$
3. $\frac{7}{29}$ 4. $\frac{7}{17}$
42. In a certain time, the ratio of a certain principal and the simple interest obtained from it are in the ratio 10 : 3 at 10% interest per annum. The number of years the money was invested is
1. 1 2. 3
3. 5 4. 7
43. A cloth merchant sold half of his cloth at 40% profit, half of remaining at 40% loss and rest was sold at the cost price. In the total transaction his gain or loss will be
1. 20% gain 2. 25% loss
3. 10% gain 4. 15% loss

44. In an examination, 1100 boys and 900 girls appeared. 50% of the boys and 40% of the girls passed the examination. The percentage of candidates who failed is
1. 45
 2. 45.5
 3. 50
 4. 54.5
45. When the price of cloth was reduced by 25%, the quantity of cloth sold increased by 20%. What was the effect on gross receipt of the shop?
1. 5% increase
 2. 5% decrease
 3. 10% increase
 4. 10% decrease
46. Walking at the rate of 4 km/hour, a man covers a certain distance in 3 hours 45 minutes. If he covers the same distance on cycle, cycling at the rate of 16.5 km/hour, the time taken by him is
1. 55.45 minutes
 2. 54.55 minutes
 3. 55.44 minutes
 4. 45.554 minutes

Directions: Study the following graph and answer the question no. 47 to 50.

Production of salt by a company (in 1000 tonnes) over the years



47. What was the percentage increase in production of salt in 2008 compared to that of 2001?
1. 55.5
 2. 125
 3. 150
 4. 220
48. In how many of the given years was the production of salt more than the average production of the given years?
1. 1
 2. 2
 3. 3
 4. 4
49. The average production of 2004 and 2005 was exactly equal to the average production of which of the following pairs of years?
1. 2006, 2007
 2. 2005, 2006
 3. 2002, 2006
 4. 2001, 2005
50. What was the percentage decline in the production of salt from 2003 to 2004?
1. 64.2
 2. 180
 3. 62.4
 4. 107