



R R CAMPUS



[Ground Floor, Nath kuti, Musallahpur Haat, Patna - 06 | : 9135000083/93:: 8002169064 |
 [For :- CSAT, SSC, IBPS (PO & Clerk), RLYS, & Others Competitive Exam]

Test No. 1

$$1) 9\frac{3}{7} + 11\frac{3}{7} + 3\frac{1}{14} + 5\frac{1}{14}$$

$$\Rightarrow 9+11+3+5 + \left(\frac{3}{7} + \frac{3}{7} + \frac{1}{14} + \frac{1}{14}\right)$$

$$\Rightarrow 28 + \left(\frac{6+6+1+1}{14}\right)$$

$$\Rightarrow 28 + \frac{14}{14}$$

$$\Rightarrow 28+1 \Rightarrow 29(A)$$

$$2) 999\frac{98}{99} \times 99 + 1$$

$$\Rightarrow \frac{98999}{99} \times 99 + 1$$

$$\Rightarrow 98999 + 1 \Rightarrow 99000(B)$$

$$3) 0.\overline{6} \times 0.\overline{9}$$

$$\rightarrow \frac{6}{8} \times \frac{9}{8}$$

$$\rightarrow \frac{9}{8} (C)$$

4) By option \rightarrow

$$(C) \rightarrow 997$$

5) on squaring both sides \rightarrow

$$\cancel{0.4} \times \cancel{0.4} \times a^2 = (0.4)^2 \times (0.04)^2 \times b$$

$$\frac{a}{b} = 0.4 \times 0.04$$

$$= 0.016(A)$$

$$6) 44\frac{1}{4} + 17\frac{5}{6} - 15\frac{3}{8} = 45\frac{x}{24}$$

$$\Rightarrow 44+17-15 + \left(\frac{1}{4} + \frac{5}{6} - \frac{3}{8}\right) = 45\frac{x}{24}$$

$$\Rightarrow 46 + \left(\frac{12+40-18}{48}\right) = 45\frac{x}{24}$$

$$\Rightarrow 46 + \left(\frac{34}{48}\right) = 45\frac{x}{24}$$

$$\Rightarrow 46 - 45 = \frac{x}{24} - \frac{34}{48}$$

$$1 = \frac{2x-34}{48}$$

$$\Rightarrow 48+34 = 2x$$

$$\Rightarrow 2x = 82$$

$$\therefore x = 41(B)$$



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$$13) 5\frac{3}{7} + 6\frac{4}{7} - 3\frac{5}{7} = 7\frac{3}{14} + x$$

$$\Rightarrow 5+6-3 + \left(\frac{3}{7} + \frac{4}{7} - \frac{5}{7}\right) = 7\frac{3}{14} + x$$

$$\Rightarrow 8 + \left(\frac{2}{7}\right) = 7\frac{3}{14} + x$$

$$\Rightarrow \frac{58}{7} - \frac{101}{14}$$

$$\Rightarrow \frac{116-101}{14} = x$$

$$x = \frac{15}{14} = 1\frac{1}{14} \text{ (C)}$$

$$14) \frac{0.19 \times 0.19 \times 0.19 + 0.21 \times 0.21 \times 0.21}{0.63 \times 0.63 \times 0.63 + 0.57 \times 0.57 \times 0.57}$$

$$\Rightarrow \frac{(0.19+0.21)^3}{(0.63+0.57)^3} \Rightarrow \frac{(0.40)^3}{(1.20)^3}$$

$$\Rightarrow \frac{0.46 \times 0.40 \times 0.40}{1.20 \times 1.20 \times 1.20}$$

3 3 3

$$\Rightarrow \frac{1}{27} \text{ (B)}$$

15)

$$\frac{3}{4} + \left(\frac{1}{4} - \frac{1}{100}\right) - \frac{9900}{10000}$$

$$\Rightarrow \frac{3}{4} + \left(\frac{25-1}{100}\right) - \frac{9900}{10000}$$

$$\Rightarrow \frac{3}{4} + \frac{24}{100} - \frac{9900}{10000}$$

$$\Rightarrow \frac{99}{100} - \frac{99}{100} \Rightarrow 0 \text{ (C) Ans}$$

16) $11 \times 13 \times 13 \times \dots \times 13^{50}$

\Rightarrow This series contain 15, which gives unit place 0.

\therefore (D) \rightarrow 0.

$$17) (6324)^{1497} \times (615)^{316} \times (341)^{476}$$

$$\Rightarrow (4)^{\text{odd}} \times (5)^{\text{even}} \times (1)^{\text{even}}$$

$$\Rightarrow 0 \quad \left\{ \begin{array}{l} 5 \text{ raised to even} \\ \text{power Given} \\ \text{U.P.D} = 0 \end{array} \right\}$$

$$\Rightarrow \text{(C)} \rightarrow 0$$

$$18) \frac{(1)^3 + (2)^3 + (3)^3 + \dots + (12)^3}{(1)^2 + (2)^2 + (3)^2 + \dots + (12)^2}$$

$$\rightarrow \frac{\left(\frac{n(n+1)}{2}\right)^2}{n(n+1)(2n+1)} \Rightarrow \frac{\left(\frac{12 \times (12+1)}{2}\right)^2}{12(12+1)(25)}$$

$$\Rightarrow \frac{\left(\frac{12 \times 13}{2}\right)^2}{2 \times 12 \times 13 \times 25} \Rightarrow \frac{(78)^2}{26 \times 25} = \frac{6084}{650}$$

$$\Rightarrow 234/25 \text{ (A)}$$

$$19) \left(1 - \frac{1}{3}\right) \left(1 - \frac{1}{4}\right) \left(1 - \frac{1}{5}\right) \dots \left(1 - \frac{1}{3}\right)$$

$$\text{Sol} \rightarrow \left(\frac{3-1}{3}\right) \left(\frac{4-1}{4}\right) \left(\frac{5-1}{5}\right) \dots \left(\frac{3-1}{3}\right)$$

$$\rightarrow \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \dots \times \frac{2}{3}$$

$$\Rightarrow \frac{2}{3}$$

$$\Rightarrow \frac{2}{3} \text{ (B) } \underline{\text{or}}$$

$$20) \sqrt{841} = 29$$

$$\Rightarrow \sqrt{841} + \sqrt{\frac{841}{100}} + \sqrt{\frac{841}{10000}} + \sqrt{\frac{841}{1000000}}$$

$$\Rightarrow 29 + \frac{29}{10} + \frac{29}{100} + \frac{29}{1000}$$

$$\Rightarrow 29 + 2.9 + 0.29 + 0.029$$

$$\Rightarrow 32.219 \text{ (B)}$$

$$21) (63)^{64}$$

$$\rightarrow (3)^{4(\text{factor})}$$

$$\rightarrow 1 \text{ (B)}$$

$$22) 0.999\dots$$

$$\Rightarrow 0.\overline{999}$$

$$\Rightarrow \frac{999}{999} = 1$$

$$\Rightarrow \text{(D)} \rightarrow 1$$

$$23) a_n = 4995, a = 510$$

$$\therefore a_n = a + (n-1)d$$

$$4995 = 510 + (n-1)15$$

$$\Rightarrow 4995 - 510 = (n-1)15$$

$$\Rightarrow \frac{4485}{15} = (n-1)$$

$$\Rightarrow 299 = (n-1)$$

$$\Rightarrow n = 300 \text{ (C)}$$



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24) prime no. Greater than 6
is $\rightarrow 7, 11, 13$ etc

\rightarrow remainder obtained by
dividing it by 6 \rightarrow

$\Rightarrow 1$ or $5 \rightarrow$ (B)

25) $n^2 = 123456787654321$

$n = \sqrt{123456787654321}$

$n = 11111111$ (C)