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SSC Test Series -25. Solution

			-		1)	New Pa	ttern)
1	С	26	D	51	С	76	С
2	D	27	С	52	А	77	В
3	А	28	В	53	В	78	А
4	В	29	С	54	А	79	D
5	D	30	D	55	А	80	А
6	В	31	А	56	D	81	С
7	D	32	С	57	А	82	D
8	С	33	А	58	А	83	В
9	D	34	С	59	С	84	D
10	С	35	В	60	В	85	А
11	В	36	В	61	D	86	С
12	А	37	А	62	А	87	В
13	А	38	D	63	В	88	В
14	С	39	В	64	В	89	В
15	С	40	С	65	С	90	А
16	С	41	В	66	А	91	С
17	В	42	А	67	В	92	А
18	С	43	В	68	С	93	А
19	С	44	В	69	С	94	С
20	D	45	А	70	А	95	D
21	D	46	В	71	С	96	С
22	D	47	В	72	C	97	D
23	В	48	Α	73	С	98	D
24	Α	49	С	74	D	99	А
25	В	50	А	75	С	100	А

REASONING ABILITY

1. (c) Tiger is the national animal of India and snow leopard is the national animal of Afghanistan.

2. (d) Adam Smith is called father of economics where as A. Lavoisier is father of (Modern) Chemistry

3. (a)



4. (b) A maccasin is a type of shoe and an Aspis is a type of snake.

5. (d) Feta is a Greek cheese and provolone is an Italian cheese.

6. (b)Zail singh was the President of India whereas rest three were the Prime Ministers of India.

7. (d) Except Ian chappell, others are captain of England test Cricket Team whereas Ian Chappell is an australian captain.

8. (c) Except Nose, rest are in pairs.

9. (d)



The movements of the person are from A to F, as shown in figure, Clearly, the final position is F which is to the North-East of the starting point A

10. (c) D	0 (С	U	Μ	Е	Ν	Т	A	Т	Ι	0	Ν
1	2	3	4	5	6	7	8	9	10	11	12	13

11. (b) a b C d/ a b b c d/ a b c C c d/ C d d d.

12. (a) Required answer =400/4-3 =97 times.

13. (c) Clearly, F is the maternal uncle of D means F is the brother of C. C is the sister of B. So, F is the brother of B who is A's mother. Thus, F is the maternal uncle of . So, A and D are the nephews of F. i.e. F has two nephews.

14. (c) **15.** (c)As given,

14+2=7

It means
$$+' = +'$$

So,
$$\sqrt{5} + 5 + 5 + 5 + 5$$

$$= \sqrt{5 \div 5 \div 5 \div 5}$$
$$= \sqrt{5 \times \frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} \times \frac{1}{5}}$$
$$= \frac{1}{5} \times \frac{1}{5} \sqrt{5}$$
$$= \frac{1}{25} \times \sqrt{5} = \frac{2.2360}{25}$$
$$= 0.089$$

16. (c) 4×1-2=2 2×3-2=2 2×3-2=4 4×4-2=14

 $9 \times 3 + 2 = 29$ $29 \times 2 + 3 = 61$ $61 \times 3 + 2 = 185$ $185 \times 2 + 3 = 375$ **18.** (c) $15 + 1^3 = 16$

 $16+2^3 = 24$

=14×5-2=68 **17**. (b) 3×2+3=9

22+3³ =51 **19.** (d)

20. (d) We have 30 rectangles and 5 hexagons in the given figure.

21. (d)

22. (b) No of consonants No of vowels

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JITENDRA 5 $3 \Rightarrow 5^2 - 3^2 = 16$ DHARMENDRA 7 $3 \Rightarrow 7^2 - 3^2 = 40$	A's profit per month					
SHAHRUKH 6 $2 \Rightarrow 6^2 - 2^2 = 32$	B's profit per month					
SALMAN 4 $2 \Rightarrow 4^{-} \cdot 2^{-} = 12$ 23. (a)As it is clear from the description 'b' lies opposite 'd',	Their capitals are pro					
'c' lies opposite 'a' and 'f' lies opposite 'e'. So, when 'c' is at the top, 'a' will be at the bottom.	A's capital : B capita					
24.(*) 25. (b) QUANTITATIVE APTITUDE 26. (B) The required remainder = $d_1 \times r_2 + r_1$	= 112 : 57 Difference between = 112 - 57 = 55, bu A's capital = $112 \times \frac{5}{2}$					
where, $d_1 =$ the first divisor = 12	$\frac{112}{112}$					
$r_1 =$ the first remainder = 4	32. (A) House containing $= 100 - 40 = 60\%$					
$\therefore \text{ The required remainder} = 12 \times 6 + 4$	Houses containing o $= 60 \times \frac{20}{20} = 12\%$					
= 76 27. (B) Oder of surds are 4, 3, 2. LCM of 4, 3, and 2 is 12. So, convert each surd into a surd order 12 $\frac{4}{10} - \frac{12}{(10)^3} - \frac{12}{1000}$	100 Houses containing o = 60 - 12 = 48% 33. (B) Ratio of parts					
$\sqrt{10} = \sqrt{(10)^2} = \sqrt{1000}$ $\sqrt[3]{6} = \frac{12}{(6)^4} \frac{12}{12} \frac{1296}{1296}$	$=\frac{1}{100-2};\frac{1}{100}$					
$\sqrt{3} = \sqrt[12]{(3)^6} \sqrt{1236}$ $\sqrt{3} = \sqrt[12]{(3)^6} = \sqrt[12]{729}$	$\frac{1}{100}:\frac{1}{115}:\frac{1}{120}$					
$\sqrt[3]{6} > \sqrt[4]{10} > \sqrt{3}$ 28. (C) Number of one digit pages from 1 to 9 = 9	= 276 : 264 : 253 =					
Number of two digit pages from 10 to $99 = 90$ Number of three digit pages from 100 to $200 = 101$ \therefore Total number of required figures $= (9 \times 1) + (90 \times 2) + (101 \times 3) = 492$ 29. (B) 30. (D) LCM of 3, 5, 6, 8, 10 and 12 = 120	Difference between = (276 – 253) × 10 34. (A) S is 4 times as fa It means if A does a days.					
Required number = 120 K + 2 ; K is a positive integer. 120 9 117 3	$4 \times \xrightarrow{\times 15} 60$ $4 \longrightarrow 10$ Total					
120 K + 2 = $(13 \times 9 + 3)$ K + 2 = $(13 \times 9 \times K) + (3K + 2)$ For every value of K, $(13 \times 27 \times K)$ is always divisible by 31. Putting value of K equal to 1, 2, 3, 4, etc. In succession, we find that number 8. Least value of K which will make $(3K + 2)$ divisible by	A B $4 - 1 = 3 \times 15$ $4 - 1 = 3 \times 15$ $4 - 1 = 3 \times 15$ 35. (D) Payment is quark Required answer					
13 is 32. \therefore The required number = $120 \times 8 + 2$	$=\frac{100 \times 2280}{9 \times 7}$					
= 960 + 2 = 962	$100 \times 8 + \frac{8 \times 7 \times 7}{2}$					
31. (A) B's profit = Rs. $\frac{235 - 45}{2}$ = Rs.95	$=\frac{2280 \times 100}{912}$					
A's profit = Rs. $95 + 45 = Rs. 95$	= Rs.250					
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D.P./LIC/CDS/NDA ENTRANCE per month = Rs. $\frac{140}{3}$ per month = Rs. $\frac{95}{4}$ als are proportional to their profit, : B capital $=\frac{140}{3}:\frac{95}{4}$ between their capitals 7 = 55, but the actual difference is 550. $=112 \times \frac{550}{55} = Rs.1120$ containing only one person 0 = 60%ntaining only a male $\frac{7}{0} = 12\%$ ntaining only one female = 48% f parts $\frac{1}{\times 5}:\frac{1}{100+3\times 5}:\frac{100}{100+4\times 5}$ $\frac{1}{5}:\frac{1}{120}$ $64:253 = 793 \ \frac{95}{4} \underline{17}7930$ between greatest and smallest 253) × 10 = Rs. 230 imes as fast as B. if A does a work in 1 day then B will do in 4 **→**60 $Total = \frac{60}{4+1} = 12 \text{ days}$ $3 \xrightarrow{\times 15} 45$ ×15 45 ent is quarterly, so, r = 4%, t = 8 years nswer

$$= \frac{100 \times 2280}{100 \times 8 + \frac{8 \times 7 \times 4}{2}}$$
$$= \frac{2280 \times 100}{912}$$

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36. (C)

$$\frac{1}{1 + 1} = \frac{1}{1 + 1} = \frac{1}{$$

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$\Rightarrow 25 - h = 5r$	$-35 \times \frac{10}{15} \times \frac{15}{44} \times \frac{10}{15} \times \frac{15}{15}$
\Rightarrow h = 25 – 5r	- 55 ^ 100 ^ 100 ⁺ 11 ^ 100 ^ 100
Volume of frustrum= $\frac{1}{3}\pi h(R^2 + r^2 + Rr)$	$=\frac{150}{10000}$ × 79 = 1.1850 lakhs
$110 = \frac{1}{3} \times \frac{22}{7} \times (25 - 5r)(25 + r^2 + 5r)$	= Rs. 1,18,500
$\Rightarrow 21 \times 5 = (25 - 5r)(25 + r^2 + 5r)$	
$\Rightarrow 21 = (5 - r)(25 - r^2 + 5r)$	
$\Rightarrow 21 = 5^3 - r^3$	
$\Rightarrow 21 = 125 - r^3$	
\Rightarrow r ³ = 104	
\Rightarrow r = $\sqrt[3]{104}$ cm	
48. (A)	
9 4.5 C	
$\Delta ABC \sim \Delta EDC$	
$\frac{9}{6+x} = \frac{6+x}{6+x}$	
$4.5 ext{ x}$ 2x = 6 + x	
x = 6	
BC = 12 cm	
$I = AC = \sqrt{AB^2 + BC^2}$	
$=\sqrt{81+144}$	
= √225 - 15m	
Lateral surface area = π rl	
$=\frac{22}{7}\times12\times15$	
$= 565.7 \text{ m}^2$	
49. (D) Percentage variation in	
Model A = $\frac{40-30}{30} \times 100 = 33\frac{1}{3}\%$	
Model B = $\frac{20-15}{15} \times 100 = 33\frac{1}{3}\%$	
Model C = $\frac{20-15}{15} \times 100 = -25\%$	
50. (C) Required answer	

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