

Adda 247

Directions (1-15):- What will come in place of question mark (?) in the following questions.	Q8. $73823 - 34156 + 4756 + 6758 - 9849 = 41499 - 160 - ?$
Q1. $\sqrt{5776} - \sqrt{1444} + \sqrt{729} = 43 + ?$ (a) 25 (b) 20 (c) 26 (b) 24	(a) 5 (b) 7 (c) 4 (d) 8 (e) 6
(d) 24 (e) 22	$\mathbf{Q9.} \frac{5599}{1331} \times \frac{3773}{2036} \times \frac{88}{49} = ? - 6^2$
Q2. 78 ×26÷6 +1262= 1311 + (?) ² (a) 17 (b) 22 (c) 15 (d) 13 (e) 19	(a) 44 (b) 46 (c) 48 (d) 50 (e) 52
Q3.1484÷28 + 1462÷34 -12×7=? (a) 12 (b) 14 (c) 18 (d) 16 (e) 20	Q10. $84 \times \frac{1}{4} \div 21^2 + ? = \frac{7}{147} \times 21 - \frac{20}{21}$ (a) 2 (b) 1 (c) 0 (d) 3 (e) 4
Q4. 42.5×15 +37.5× 25= 1420 + ? (a) 145 (b) 165 (c) 155 (d) 170 (e) 185 Q5. 2450 +3760 -3830 =6000 - ? (a) 3610	Q11. $\sqrt{\frac{3840}{60} + \frac{1440}{40} - \frac{1330}{70}} = ?$ (a) 10 (b) 9 (c) 8 (d) 7 (e) 11 Q12. $25 \times 18 + \frac{4200}{40} - \frac{525}{105} = 740 - ?$
 (b) 3620 (c) 3580 (d) 3600 (e) 3520 	 (a) 200 (b) 220 (c) 190 (d) 170 (e) 150
$\mathbf{Q6.} \begin{pmatrix} \frac{4}{5}of25\\ 64 \end{pmatrix} \div \left(432 - 20^2 + \frac{3}{7}of\ 21\right) \times (82) = ?of\ \frac{1}{64}$ (a) 50 (b) 45 (c) 35 (d) 30 (e) 40	Q13. 3845+4380+2640 - 5965 = (?) ² (a) 75 (b) 60 (c) 80 (d) 70 (e) 72
Q7 . 55% of 900 + 70% of 1050 = ?% of 3000 (a) 41 (b) 42 (c) 43 (d) 44 (e) 45	Q14. 400 ÷ 20 × 35 + 6666 ÷ 33+ ? = 1100 (a) 180 (b) 198 (c) 195 (d) 205 (e) 200

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Q15. 28× 14.5+1680÷15+445=1000 -?	022. $\frac{177.8 + ?}{24.89 \times 41.87 - 15.98 \% of 400} = (31.89)^2$
(a) 27	7.98
(h) 27	(a) 96
(U) 57	(b) 126
(c) 47	(c) 156
(d) 50	
(a) 40	(d) 196
(e) 40	(e) 84
Directions (16-30): what approximate value will come in	023 $\sqrt{1205.06} \pm \sqrt{2024.03} \pm \sqrt{1520.07} = \sqrt{2} = 12.03.06$ of
place of question (?) mark:	$Q23. \sqrt{12}3.90 \pm \sqrt{20}24.93 \pm \sqrt{13}20.97 \pm \sqrt{2}.93 \times \sqrt{0}01$
France of American (1)	899.98
	(a) 5
Q16. 129.89% of 1199.82 + 1249.78 ÷ 49.98 × 30.012 = ?	(h) 7
(a) 2210	(c) 13
(h) 2380	
(a) 2210	(d) 16
(1) 2510	(e) 9
(d) 2530	
(e) 2460	024 240 00 + ^{55.98} ×239.89 + 5 (10.00)3
	$Q24.349.89 + \frac{13.86}{13.86} + \sqrt{2} = (10.98)^{3}$
017 1550 $\sqrt{1(0.01)}$ (2.00) ² \cdots 20.00 2.0/ of 500.02	(a) 196
$\mathbf{V17}$, 155.9 - $\mathbf{V100.01}$ + $(2.90)^{-}$ × 39.89 = $(.9001599.92)$	(b) 441
(a) 62	(3) 111
(b) 78	(C) 400
(c) 84	(d) 529
	(e) 625
(d) 52	
(e) 68	
	Q25. $31.96 \times 34.89 + \sqrt{960.89 + 18.98\%}$ of ?=
010 $\sqrt{00.00 \times 2001} \times (70.01 \times 17.01) 2 \times (511.00) 1/2$	<mark>39.98</mark> % of 3304.98
Q18. $\sqrt{80.98 \times 36.01 + 6/9.81 \div 1/.01} = (+(511.98)^{1/3})$	(a) 800
(a) 86	(b) 700
(b) 78	
(c) 94	(c) 900
(1) 52	(d) 1000
(d) 52	(e) 950
(e) 66	
	026 1202 011 . 52 00 . 455 000 . 2246 011 1 011 2
010 1500 850% of 130 80 \pm 2 % of 1500 82 \pm 72 01 x	$Q26. 1/82.011 \div 53.99 + 455.889 - 2346.011 \times 1.011 = ?$
$Q19.1399.0370 \text{ of } 139.09 + 190 \text{ of } 1399.03 = 72.01 \times 1000000000000000000000000000000000$	× 2.93
39.81	(a) -629
(a) 20	(h) - 619
(h) 32	(a) 620
(c) 60	(1) 629
	(d) 619
(d) 50	(e) -609
(e) 40	
	027 (574.99 + 7511.11 - 2768.01) \pm (76.1 \times 0.09 +
020 $(17012)^2 + (2189)^2 + (801)^2 + 2 - 1749821 -$	$\sqrt{2}$ (377.77 - 1311.11 - 2100.71) + (70.1 × 0.70 +
$\mathbf{v} = 0 \cdot (1 \cdot 0 \cdot 1 2) \cdot (2 \cdot 0 \cdot 1) \cdot (0 \cdot 0 \cdot 1) \cdot (1 - 1 \cdot 1 \cdot 1 \cdot 0 \cdot 1 1 = 0 \cdot 0 \cdot 0 \cdot 1 \cdot 0 \cdot 1 = 0 \cdot 0 \cdot 0 \cdot 1 \cdot 0 \cdot 0 \cdot 1$	$6/4.9/6 - 342.001) = \sqrt{?}$
820.01 + 2210.01	(a) 529
(a) 2208	(h) 49
(b) 2256	(c) 160
(c) 2601	
	(a) 289
(a) 2303	(e) 729
(e) 2373	
	$\left[\left(\sqrt{20,10,0,0,00}\right), (0,0,0)^{\frac{1}{2}}\right] = 0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0$
021. 307.89 + 671.93 – 39.87% of ? + 79.89% of 354.93 =	Q28. $[(\sqrt{3843.9} \times 9.09) \div (26.99)_3] \times 23.012 = ?^2 +$
(77 07)2	336.97
(2/.0/)	(a) 22
(a) 1200	
(b) 1175	(b) 23
(c) 1225	(c) 27
(d) 1250	(d) 37
(u) 1250	(a) 42
	(8) 40





029 $\sqrt{(95.99) \times 12.01 \div 17.9 \pm 25.899 - 9.011} - $	036. 1229.99 + 2120.09 - 3049.987 =?
$\chi(0.0,0) \times 12.01 \times 17.9 + 20.099 \times 0.011 =$	(a) 300
(64.9-?)% of 35.88	(b) 100
(a) 50	(b) 100
(b) 2E	(c) 200
(D) 55	(d) 500
(c) 30	(a) 400
(d) 40	(e) 400
(a) 20	
(e) 20	
	Q37. $\sqrt{(99.99 + 104.99 \times 5 = ? \div 8.989)}$
030 119 $\times \sqrt{224.89} + 1212.09 - (1053.11 \pm 8.9) = 2$	
	(a) 55
(a) 1,275	(b) 15
(b) 1,225	(c) 25
(c) 1 175	(d) 25
	(u) 55
(d) 1,255	(e) 45
(e) 1,245	
	038 $3599 \times 498 - 119999 \div 799 = ?$
Directions (31-45): What approximate value will come	(a) z_0
in place of question mark (?) in the following questions.	(b) 50
(You are not expected to find the exact value)	(c) 40
(100 are not expected to find the exact value)	(4) 30
	(a) 10
031. 42.022% of $350.09 - 28.04\%$ of $399.999 = ?$	(e) 10
(a) 40	
(a) 40	$039.?^{2}+60\% of 239.99 = 55\% of 320.02 + 3.98$
(b) 35	(2) 8
(c) 45	
(d) = 0	(0) 6
(u) 50	(c) 4
(e) 30	(d) 16
	(e) 14
022 $\sqrt{(122.00 + 465.05) + 11.00} + 2 - 240.02 + 1.000$	
$Q32.\sqrt{(123.09 + 465.05) \div 11.99 + ? = 240.02 \div 1.989}$	
(a) 93	Q40. 524.90 + 125.05 =? × 9.99
(h) 143	(a) 85
	(h) 75
(C) 133	(0) 75
(d) 113	(C) 65
(e) 123	(d) 55
(0) 125	(e) 45
Q33. $(15.99)^2 - 14.04 \times 8.99 + ? = 154.999$	
(a) 30	Q41. $\sqrt{144.04 \times 15\%}$ of $120.09 = ? - 54.99 \times 3.03$
(h) 4 F	(a) 401
(0) 45	(h) 431
(c) 35	(a) 241
(d) 20	
(a) 25	(d) 471
(e) 25	(e) 381
034. 62.02% of $249.99 - 19.99\%$ of $105.05 - ? = 110$	04.2 12.03 \times 7 \pm 2 - 20.0306 of 240.00
(a) 24	$Q+2.13.03 \times 7+1 = 30.03700 J 349.99$
(a) 24	(a) 14
(b) 16	(b) 18
(c) 28	(1) 8
	(d) 20
(d) 34	(u) 20
(e) 20	(e) 6
035 44.98% of 220.09 \pm 20.020% of 160.06 \pm 22 \pm 2.00	Q43. 32.01% of 600.02 – 19.99% of 400.04+?=
Q33. \pm 4. 50 70 0 <i>j</i> 220.05 \pm 50.05 70 0 <i>j</i> 100.00 - $\frac{1}{2}$ + 2.99	$859.99 \div 2$
(a) 32	(a) 250
(b) 28	
(-)	(b) 258
(L) 12	(-) 200
(1) 00	(C) 288
(d) 22	(c) 288 (d) 318
(d) 22 (e) 18	(c) 288 (d) 318 (c) 228

Adda 247 BANKERS 200 Quantitative Antitud	le Questions for LIC AAQ
$\begin{array}{c} - & - & - & - & - & - & - & - & - & - $	051 810 820 832 868 1012 1732 6052
$\sqrt{44} \cdot \frac{1}{20.09} + \frac{1}{39.99} - \sqrt{2} = 10.01$	(a) 6052
(a) 36	(b) 910
(b) 16	(0) 010
(c) 4	(C) 808
(d) 64	(d) 832
(a) 100	(e) 1732
(e) 100	
	Q52. 1024, 350, 832, 508, 704, 604, 640
Q45. $8.98 \times 60.02 - 19.99^2 + 10.01\%$ of $130.09 = ?$	(a) 1024
(a) 123	(b) 640
(b) 93	(c) 704
(c) 153	(d) 350
(d) 173	(e) 508
(e) 113	
(c) 115	053 , 190, 210, 266, 358, 486, 646, 850
Directions (4((0) Is such a fith as a matting a mathematical	(a) 646
Directions (46-60): In each of these questions a number	(h) 850
series is given. In each series only one number, if any, is	(0) 000
wrong. Find out the wrong number.	(1) 400
	(d) 190
046. 28, 14, 14, 22, 42, 105, 315	(e) 210
(a) 28	
(h) 42	Q54. 15, 50, 160, 370, 709, 1208, 1904
(b) 42 (-) 215	(a) 15
(c) 315	(b) 50
(d) 22	(c) 3 70
(e) 105	(d) 1208
	(e) 15
Q47. 5, 7, 13, 25, 47, 75, 117	
(a) 5	055. 120, 170, 251, 367, 522, 720, 990
(b) 7	(a) 120
(c) 75	(b) 990
(d) 117	(c) 522
(u) 117 (-) 47	(d) 367
(e) 47	(a) 251
Q48. 288000, 24000, 3600, 300, 50, 12.5, 6.25	OFC FE 120 210 229 E17 760 1000
(a) 24000	(30. 55, 120, 210, 556, 517, 700, 1090
(b) 50	(a) 120 (b) 1000
(c) 12.5	(b) 1090
(d) 3600	(c) /60
(a) 6 25	(d) 55
(e) 0.23	(e) 338
Q49. 120, 125, 136, 149, 166, 185, 208	BILINGUAL
(a) 120	
(b) 166	DANTEZ
(c) 149	BANK
(d) 185	
(e) 208	DDIME
	FINIME
NED 2015 214 106 250 125 241 2	TEST DACK
UJU. 20J, 214, 100, 230, 123, 341, -2	ILOT PAOK
(a) 200	1200+ TOTAL TESTS
(D) 214	
(c) 250	
(d) 125	@ 7670 Only
(e) -2	W (0/9 Only

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	le Questions for Lic AAO
057. 110. 140. 240. 261. 365. 380. 492	067. I. $x^2 - 2x - 15 = 0$
(2) 240	$\frac{1}{10} \frac{1}{10} \frac$
	11. $y = 15y + 50 = 0$
(b) 380	
(c) 492	068. I. $10x^2 + 19x + 7 = 0$
(d) 140	$U = 10^{2} + 16^{2} + 12 = 0$
(a) 110	$11.5y^2 + 10y + 12 = 0$
(e) 110	
	069. I. $x^2 - 20x + 75 = 0$
Q58. 105, 106, 123, 154, 197, 255, 327	$U_{1}v_{1}^{2} + 10v_{1} + 94 = 0$
(a) 197	11. $y + 19y + 64 = 0$
$(h) 10^{-1}$	
(0) 105	070. I. $x^2 - 9x - 22 = 0$
(c) 154	$U_{1} v^{2} = 17v + 66 = 0$
(d) 255	11. $y = 17y + 00 = 0$
(e) 123	
(0) 120	071. I. $4x^2 + 19x + 15 = 0$
	$11.8v^2 + 10v + 3 - 0$
Q59. 1, 329, 638, 911, 1130, 1277, 1334	11.0y + 10y + 5 = 0
(a) 1	
(h) 1334	Q72. I. $x^2 - 18x + 56 = 0$
(b) 155 I (c) 011	$11 y^2 + 4y - 32 = 0$
(c) 911	11. $y + 4y - 52 = 0$
(d) 1277	
(e) 638	Q73. I. $x^2 + 14x - 72 = 0$
	$11 y^2 - 13 + 36 = 0$
OCO 2100 2126 1000 2216 1740 2640 1244	11 y 10 + 00 = 0
Q60. 2100, 2136, 1990, 2316, 1740, 2640, 1344	
(a) 2100	Q74. I. $x^2 - 9^2 = 12^2$
(b) 1990	$II v^3 = 3375$
(c) 2316	n. y = 5575
(3) 1740	
(d) 1/40	$\frac{5}{x^2}$ $\frac{3}{x^2}$
(e) 2640	$Q75.1.\frac{1}{28} = \frac{1}{7}$
	$11 11 x \pm (7 \times 6) = 97$
Direction (61-75): Civen below in each question two	$11.11y + (7 \times 0) = 97$
Direction (01-75). Given below in each question two	
quadratic equations are given. Please solve each quantity	Directions (76-90): In each of the following questions,
and compare both of them and answer accordingly from	two equations (I) and (II) are given Solve the equations
the following options.	two equations (1) and (11) are given. Solve the equations
	and mark the correct option:
	(a) if $x > y$
(b) y> x	(h) if $x > y$
(c) $x \ge y$	(b) if $x \in y$
(d) $x < y$	(c) If x <y< td=""></y<>
(a) $x = y$ or No relation can't be established	(d) if $x \leq y$
(e) x -y of No relation can t be established.	(e) if x = v or no relation can be established between x and
	(c)
Q61. I. $2x^2 + x - 6 = 0$	у.
II. $v^2 + 6v + 9 = 0$	
	Q76.
$0(2 + x^2) + 4x + 4 = 0$	$\int r^2 - 22r + 72 = 0$
Q62. 1. $x^2 - 4x + 4 = 0$	1.1 + 2.1 + 2.0 = 0
II. $y^2 - 10y + 16 = 0$	$11. y^2 + 11y + 30 = 0$
063 $1 2x^2 + 7x + 6 = 0$	077.
$Q_{03} = 1.2\lambda + 7\lambda + 0 = 0$	1 - 2 - 22 + 120 = 0
$11.\ 3y^2 + 11y + 10 = 0$	$1.x^{2} - 23x + 120 = 0$
	II. $y^2 - 17y + 70 = 0$
064. I. $x^2 - 2x - 24 = 0$	
$11 y^2 + 12y + 26 = 0$	078
11. y = 12y + 50 - 0	
	$1. x^2 - 15x + 54 = 0$
Q65. I. $4x^2 + 11x + 6 = 0$	II. $y^2 + 10y - 96 = 0$
$II_{v}^{2} + 10v + 25 = 0$	
11.y + 10y + 20 = 0	070
	Q79.
Q66. 1. $4x^2 - 20x + 25 = 0$	I. x ³ +440=2168
II. $5y^2 - 6y - 8 = 0$	$II.v^2 - 23 = 121$





Q80.

I. $x^2 + 4x - 12 = 0$ II. $y^2 - 9y + 20 = 0$

Q81.

I. $x^2 - 25x + 100 = 0$ II. $y^2 - 27y + 110 = 0$

Q82.

I. $x^2 = 289$ II. $y = \sqrt{289}$

Q83.

I. $x^2 + 12x + 32 = 0$ II $y^2 + 7y + 12 = 0$

Q84.

I. $3x^2 + 16x + 20 = 0$ II. $y^2 + 14y + 48 = 0$

Q85.

I. $x^2 + x - 72 = 0$ II. $y^2 + 13y + 42=0$

Q86.

I. $x^2 + 5x + 6 = 0$ II. $y^2 - 9y + 14 = 0$

Q87.

I. $x^2 - 14x + 45 = 0$ II. $y^2 + 2y - 35 = 0$

Q88.

I. $x^2 + 11x + 18 = 0$ II. $y^2 + 6y + 8 = 0$

Q89.

I. $x^2 + 5x = -6$ II. $y^2 - 15y = 16$

Q90.

I. 2x + 3y = 3II. 3x + y = 8

Directions (91-95): Pie chart given below shows distribution of passenger travelling from Haryana roadways to different district. Read the data carefully and answer the questions.



Q91. No. of passenger who are travelling to Gurgaon are approximately how much percent less than no. of passenger travelling to Sonipat and Ambala together? (a) 75%

- (b) 78%
- (c) 50%
- (d) 65%
- (e) 90%

Q92. What is the average no. of passengers who are travelling to Hisar, Panipat and Rewari?

(a) 3025 (b) 2075 (c) 3375 (d) 3425 (e) 3075

Q93. Passenger travelling to Hisar district are how many less than passenger travelling to Ambala?

(a) 2525
(b) 2575
(c) 2425
(d) 2475
(e) None of these.

Q94. If ratio of men to women who are travelling to Ambala and Gurgaon are 18:5 and 7:8 respectively, find ratio between men travelling to Gurgaon and women travelling to Ambala?

(a) 5:7
(b) 7:18
(c) 7:5
(d) 14:15
(e) 15:8

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Q95. If fair of a ticket for Rewari is Rs.75 and fair for Panipat is $33\frac{1}{3}\%$ more than that of Rewari, find difference between total revenue generated from both district (in Rs.)? (a) 33750 (b) 22025 (c) 34250 (d) 35750

(e) 25075

Directions (96-100): Paragraph given below gives information of literate and illiterate population out of total population of three cities i.e. A, B and C. Read the paragraph carefully and answer the following questions.

Total population of city A and B are 22000 and 16000 respectively. Total literate population of city B is 6000 which is 6.25% of total population of city C. Ratio of literate to illiterate population in city A and C is 5:6 and 2:1 respectively. 40% of literate population in each city is graduate.

Q96. Literate population from city B are what percent of illiterate population of city A?

(a) 100%

- (b) 75%
- (c) 50%
- (d) 40%
- (e) 60%

Q97. What is the ratio between graduate population of city C and total population of city B?

- (a) 5:8
- (b) 3:5
- (c) 5:3
- (d) 8:5
- (e) 1:3

Q98. What is the difference between graduate population of city B and illiterate population of city C?

- (a) 29600
- (b) 28400
- (c) 28600
- (d) 29400
- (e) None of these.

Q99. Population which is literate but ungraduated from city A are what percent graduate population of city B?
(a) 500%
(b) 250%
(c) 300%
(d) 120%

Q100. If ratio of male to female in graduate population from city C is 9:7, find difference between graduate male from city C to literate but ungraduated from city B?

(a) 7200
(b) 14400
(c) 10800
(d) 12000
(e) 11800

Directions (101-110): Bar graph given below shows quantity of five different products (i.e. rice, pulse, wheat, sugar and salt) sold (in kg) by a shopkeeper and table shows total revenue (in Rs.) generated by selling these individual products.



Name of product	Total revenue (in Rs.)	
Rice	2200	
Pulse	3750	
Wheat	900	
Sugar	1200	
Salt	600	

Q101. Cost price of per kg rice is how much more or less than per kg selling price of sugar when rice is sold at 60% profit?

- (a) Rs. 4 more (b) Rs. 5 less
- (c) None of these.
- (d) Rs. 4 less
- (e) Rs. 5 more

Q102. If 3 kg of wheat and 2 kg of salt is mixed, then what will be the selling price per kg of such mixture?
(a) Rs.15
(b) Rs. 17
(c) Rs. 14
(d) Rs. 12
(e) Rs. 16

(e) 375%





0109. Total number of student playing Cricket of college

L and M together are what percent more/less than total

number of student playing Hockey of college K and M

Q110. If total number of students in college K in year

2015 is increased by 20% percent with respect to year

2014 and the ratio of student playing Football, Cricket and

Hockey becomes 5:2:3 respectively then find the

average number of students playing football in same

Direction (111-115): Given bar graph shows total

number of confirmed cases of COVIND-19 and number of

deaths in four different countries. Study the bar graph

carefully and answer the questions given below.

college K in year 2014 and 2015?

Q103. Total revenue generated from wheat is what **Q107.** If $14\frac{2}{7}$ % of student playing Cricket of college N left percent of difference between total revenue generated playing cricket and started playing Football in same from rice and salt? college then find the ratio of number of student playing (a) 40.25% (b) 56.25% football of college N and M together to the number of (c) 64.25% student playing Cricket of college K and N together? (d) 45.50% (a) 3 : 2 (e) 25.75% (b) 1:2 **Q104.** If cost price of per kg pulse is Rs. 60, find profit (c) 1:1 earned on selling 40 kg of pulse (in Rs.)? (d) 1:3 (a) 450 (e) 2 : 1 (b) 600 (c) 800 **Q108.** Average no. of students playing Hockey of college (d) 750 (e) 300 K, L and O is how much more than average number of students playing football of college K, L & M? Q105. What is the average quantity of rice, pulse and (a) 120 wheat sold by shopkeeper? (b) 50 (a) 45 kg (c) 80 (b) 55 kg (d) 40 (c) 60 kg (d) 40 kg (e) 100 (e) 50 kg

together?

(a) $32\frac{1}{2}\%$

(b) 17

(c) 12

(d) $23\frac{2}{3}\%$

(e) $7\frac{9}{10}\%$

(a) 640

(b) 525

(c) 625

(d) 545

(e) 454

Directions (106-110): Study the following bar graph and answer the questions that follow.

Given below is the bar graph which shows the number of students playing three different games in five colleges in year 2014.



Q106. If $11\frac{1}{9}\%$ of students playing Hockey of college L are females then, number of males playing Hockey from same college is what percent of average number of students playing Hockey from college M & O?

(a) $88\frac{8}{9}\%$ (b) $63\frac{1}{3}\%$ (c) $68\frac{8}{9}\%$ (d) $72\frac{2}{7}\%$ (e) $82\frac{2}{3}\%$





Q111. For which country mortality rate is lowest among the given four countries.

- (a) Italy
- (b) USA
- (c) Spain
- (d) China
- (e) USA and China

Q112. Total confirmed cases in USA is what percent more than total deaths in Italy.

- (a) 1200%
- (b) 1350%
- (c) 2100%
- (d) 1900%
- (e) 1500%

Q113. Find out the ratio between mortality rate of Spain to that of China?

- (a) 19: 11
- (b) 43:14
- (c) 15:7
- (d) 14:9
- (e) 13: 5

Q114. Total death in all four countries together is what percent of total confirmed cases in China?

(a) 59.375%
(b) 62%
(c) 55%
(d) 66.66%

(e) 75%

Q115. If number of confirmed cases in China is increased by 25% and mortality rate remains same, what will be the new number of total deaths in China.

(a) 4400
(b) 4500
(c) 4600
(d) 5200
(e) 5000

Direction (116 – 120): Given below the bar graph shows the quantity of six different items (in kg) purchased by a person during the lockdown period. Read the data carefully and answer the questions.



Q116. If the sum of the price of one kg sugar and one kg salt is Rs.84 and the ratio of price of one kg of sugar and one kg of salt is 11: 10. Then, find the difference between the total price of Sugar and salt purchased by man?

(a) Rs. 220 (b) Rs. 240 (c) Rs. 260 (d) Rs. 300 (e) Rs. 280

Q117. If the total price of tea is Rs. 900 and that of rice is Rs. 1500, then find the price of one kg tea is what percent more than that of rice?

- (a) 0%
- (b) 20% (c) 5%
- (d) 10%
- (e) 15%

Q118. If the price of one kg of pulse and one kg of oil is Rs. 63 and Rs. 42 respectively, then find the ratio of the total price of the pulse to the total price of oil? (a) 13:25 (b) 1:2 (c) 3:5 (d) 18:25 (e) 12:13







Q119. The total quantity of sugar and salt purchased together by man is what percent of the total quantity of rice and pulse together purchased by man? speed? (a) $87\frac{1}{2}\%$ (a) 70 minutes (b) $83\frac{1}{3}\%$ (b) 72 minutes (c) 74% (c) 75 minutes (d) 92% (d) 90 minutes (e) 84 minutes (e) $64\frac{1}{2}\%$ **Q120.** If the price of one kg salt, one kg rice, and one kg oil is Rs. 56, Rs. 32 and Rs. 40 respectively, then find out the total price of oil, salt, and rice purchased by man? (a) Rs. 2000

(b) Rs. 2800

(c) Rs. 2200

(d) Rs. 1800

(e) Rs. 2600

Q121. Train A crosses a 230m long platform in 29 seconds and train B crosses a 150m long platform in 24 seconds. Train B which is 450m long crosses train A in 160 seconds, while running in the same direction. Find how much time will the train A take to cross a 50m long bridge?

(a) 16 seconds

- (b) 22 seconds
- (c) 20 seconds
- (d) 17 seconds
- (e) 25 seconds

Q122. A 950 metres long train-A crosses another train-B running in same direction in 16 seconds. If the ratio of speed of these trains is in the ratio 17:13 respectively, find out the length of train B?

(a) 1000 meter

- (b) 1900 meter
- (c) 1600 meter
- (d) 1100 meter
- (e) Can't be determine

Q123. A train crosses a tunnel which is half of its length with a speed of 144 km/hr. in ½ min, then find the time in which it will cross another train which is double of its length and standing on platform in opposite direction with 60% of its initial speed ?

(a) 120 sec.

- (b) 90 sec.
- (c) 150 sec.
- (d) 100 sec. (e) 180 sec.

,

Q125. The speed of boat in downstream is 'X-4' kmph and ratio of time taken by a boat to cover a certain distance in upstream to downstream is 2 : 1. If boat takes 5 hours to Cover 40 km in Upstream, then find the value of X?

(a) 16

(b) 20

(c) 22

(d) 24

(e) 18

Q126. Distance between two cities P and Q is 900 km. Car A and Car B can cover the distance between P and Q in 'X' hours and (X + 4) hours respectively. If Car B and Car A start from city P at 6.00 am and 8.00 am respectively and both Cars meet at 10.30 am, then find the distance between P and the point where both the cars meet?

(a) 425 km (b) 475 km (c) 450 km

(C) 450 KIII	
(d) 500 km	
(e) 400 km	

Q127. Downstream speed of a boat is $33\frac{1}{3}\%$ more than its upstream speed and the speed of the boat in still water is 15 km/h more than the speed of the stream. Find the total time taken by boat to travel 120 km in upstream?

- (a) 7 hr (b) 8 hr
- (c) 9 hr
- (d) 5 hr
- (e) 10 hr

Q128. Amit goes to office from his home by bike at the speed of 30 kmph and he comes back to his home from office by bike at the speed of X kmph. If average speed for whole journey is 33 kmph, then find the value of 'X' (nearest to two decimal places)?

(a) 35.56 km/hr (b) 36.00 km/hr (c) 36.67 km/hr (d) 32.50 km/hr (e) 34.50 km/hr





Q129. A train 'X' starts from station P at 8 am and reaches
station Q at 4 pm. Another train 'Y' started from Q at the
same time at which 'X' started and reaches 'P' at 3 pm.Q1
him
cu
(a)
(b)then find the time at which both the trains crossed each
other.(a)
(b)(a)
(c)(a)
(c)

(a) 11 : 44 am

- (b) 11 : 48 am
- (c) 11 : 36 am
- (d) 12 : 44 pm
- (e) 11 : 50 am

Q130. A car covered a certain distance at a certain speed in a fixed time. If car had moved 9 kmph slower, it would have taken 2 hours more and if it had moved 5 kmph faster, it would have taken 48 min less. Find the distance covered by car?

- (a) 300 km
- (b) 360 km
- (c) 320 km
- (d) 400 km
- (e) 450 km

Q131. Downstream speed of a boat is $57\frac{1}{7}\%$ more than the upstream speed of a boat. If the speed of the stream is 8 km/hr., then find the total time taken by the boat to cover 176 km in downstream and 70 km in upstream.

- (a) 7 hours
- (b) 6.5 hours
- (c) 7.5 hours
- (d) 6 hours
- (e) 8 hours

Q132. Speed of a boat in still water is 8 km/h. It takes 5 hours to go upstream and 3 hours downstream distance between two points. What is the speed of stream?

- (a) 4 km/h
- (b) 2 km/h
- (c) 3 km/h
- (d) 1 km/h
- (e) 2.5 km/h

Q133. A man covers half of total distance with 12 km/h and another half distance with 24km/h. Find his average speed.

(a) 12 km/h

- (b) 16 km/h
- (c) 10 km/h
- (d) 18 km/h (e) 6 km/h

Q134. A man can row 12 kmph in still water and it takes him 90 minutes to reach a place & return. If the speed of current is 4 kmph then how far is the place?

(a) 8 km
(b) 6 km
(c) 10 km
(d) 12 km
(e) 16 km

Q135. A man travels some journey on car with speed 60 kmph and some on cycle with speed 4 kmph. In return journey he come in train with speed 20 kmph and take equal time in both side journey. Find the ratio of the distance travel by car, cycle and train.

(a) 8:2:11
(b) 3:2:5
(c) 2:1:3
(d) 6:1:7
(e) None of these

Q136. A spherical ball of radius 16 cm is melted and casted into two cones of equal size and shape. If the base radius of the cone is 50% of the height of the cone. Find the height of each cone?

- (a) 36 cm
- (b) 18 cm
- (c) 32 cm
- (d) 20 cm
- (e) 16 cm

137. How many three letters words starting with S (with or without meaning) can be formed out of the letters of the word, "STRANGE", if repetition of letters is not allowed?

(a) 10

- (b) 15 (c) 12
- (d) 30
- (e) 18







Q138. If two dice are rolled simultaneously, find the probability of obtaining the sum (of numbers on these two dices) which is divisible by 2 or 3 but not by both? $(a)^{\frac{1}{4}}$ (b) $\frac{1}{2}$ (c)

- (d)
- $(e)\frac{1}{3}$

Q139. The area of a rectangular field having length 128m and breadth 16m is equal to the area of an isosceles rightangle triangle. If the radius of a sphere is $12\frac{1}{2}\%$ of the hypotenuse of the isosceles right-angle triangle, then find out the total surface area of sphere?

- (a) $512\pi m^2$
- (b) $343\pi m^2$
- (c) $580\pi m^2$
- (d) $494\pi m^2$
- (e) $500\pi m^2$

Q140. Gurdeep Chhabra joined 'Adda 247' with the work experience of 26 years due to which average work experience of all employees of 'Adda 247' was increased by one year. If initial average work experience of all employees of 'Adda 247' was five years, then find the new number of employees in 'Adda 247'?

(a) 23

- (b) 19
- (c) 25
- (d) 21
- (e) 27

Q141. If two dices are rolled together, then find the probability of getting a number of one dice greater than the number on other dice?

(a)	3
(~)	4
(h)	4
(ν)	-

- (c)
- (d) $\frac{5}{6}$ (e) $\frac{1}{2}$

Q142. The radius of a cylinder & a sphere is same, and ratio of height and radius of cylinder is 2 : 1. If the volume of sphere is 288 π cm³ then find the volume of cylinder? $(in cm^3)$

(a) 438 π

- (b) 426 π
- (c) 420 π
- (d) 432 π (e) 444 π

Q143. How many cubes of 7.5 cm edge can be cut out from a cube of 45 cm edge?

- (a) 108
- (b) 72
- (c) 216 (d) 230
- (e) 256

Q144. How many Words can be formed from the letters of the word 'FLAGSHIP' so that the vowels always come together?

- (a) 5040
- (b) 10080

(c) 720

(d) 360 (e) 1440

Q145. One card is picked randomly from a pack of 52 playing cards. What is the probability that it would either be black queen or red king?

(a)	1 13	
(b)	5 13	
(c)	6 13	
(d)	7 13	
(e)	8 13	

Q146. The ratio of height of a cylinder to its base radius is 2:1 respectively. If radius of a hemisphere is equal to the radius of the cylinder, then find the total surface area of cylinder is what percent more than total surface area of a hemisphere?

(a) 40% (b) 30% (c) can't be determined (d) $33\frac{1}{3}\%$ (e) 50%

Q147. A bag contains 4 red, 3 orange and 2 green color balls. Find the probability of selecting two same color balls from the bag?

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Q148. Find the probability of eight letters word that can Q151. Find the difference between the total number of be formed from the letters of the word 'BLASTING' so that complaints received on both days by all network operators? vowels always come together. (a) 40 (a) $\frac{1}{4}$ (b) 50 (b) $\frac{1}{5}$ (c) 60 (d) 70 $(c)\frac{1}{3}$ (e) 80 (d) $\frac{\frac{10}{21}}{\frac{5}{14}}$ **0152.** Total number of complaints received by C & D together on Tuesday are what percent more/less than the number of complaints received by A & B together on Wednesday? **Q149.** The total surface area of a cylindrical vessel is 1232 (a) 62.50% cm^2 and the height of vessel is 2 times more than the (b) 63.63% radius of vessel. Find the volume of cylindrical vessel? (c) 66.66% (a) 4312 cm³ (d) 33.33% (b) 3201 cm³ (e)11.11% (c) 3234 cm³ (d) 3256 cm³ **Q153.** Find the ratio of number of complaints received by B on both days to number of complaints received by A & D (e) 3333 cm³ together on Wednesday? (a) 1:2 **Q150.** There are 5 red balls, 6 black balls and some green (b) 2:1 colored balls in a box. If the probability of choosing a (c) 1:1 black ball from the box is $\frac{1}{3}$, then find the number of green-(d) 5:4 (e) 4 : 5 colored ball in the box? (a) 5 **0154.** Find the total number of complaints received by C (b) 4 on Tuesday and Wednesday are approximately what (c) 6 percent of total number of complaints received on (d) 8 Tuesday by all network operators together? (e) 7 (a) 36% (b) 60% Directions (151-155): Line graph below shows the (c) 53% number of complaints received by four different network (d) 48%(e) 67% operators (A, B, C & D) on two different days Tuesday & Wednesday. Study the line graph carefully and answer the Q155. Find the ratio of complaints received by A,B & D following questions. together on Tuesday to total complaints received on 140 Wednesday by all network operators together? (a) 11: 17 120 (b) 21:31 (c) 18:19 100 (d) 29:32 (e) 51 : 43 80 60 Direction (156 - 160): In each of these questions a number series is given. In each series only one number is 40 wrong. Find out the wrong number. 20 Q156. 8, 4, 4, 10, 12, 30, 90 0

(a) 90 (b) 8 (c) 10 (d) 12 (e) 30

A

В

Tuesday

С

Wednesday

D

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Q157. 11, 16, 25, 41, 66, 102, 151	Q164. $3167 - 2881 - 11^2 = ? -\sqrt{1681}$
(a) 41	(a) 316
(b) 66	(b) 416
(c) 11	(c) 286
(d) 151	(d) 326
(e) 25	(e) 206
01E9 21 25 20 29 10 27 19	Q165. 62.5% of $? -(5)^2 = 15^2$
(2) 10	(a) 200
(a) 10	(b) 100
(b) 27	(c) 500
(d) 25	(d) 400
(d) 23 (e) 20	(e) 300
	Direction (166 – 170): What approximate value should
Q159. 20, 28, 40, 56, 76, 104, 128	come in the place of question (?) mark in the following
(a) 104	questions.
(b) 128	
(c) 56	Q166. 24.01% of 449.98 + $?^2 = (16.01)^2 - \sqrt[3]{63.93}$
(d) 28	(a) 8
(e) 40	(b) 12
	(c) 10
Q160. 1, 2, 6, 20, 88, 445, 2676	(d) 9
(a) 2	(e) 14
(b) 6	01(7 2 × (44.01.0/ -5.750.01 + 110.01) 07.000/ -5
(c) 88	Q167. (44.01% of /50.01 + 110.01) = 87.99% of
(d) 2676	(2499.98)
(e) 20	$\begin{pmatrix} a \end{pmatrix} 2 \\ \begin{pmatrix} b \end{pmatrix} 4 \\ \end{pmatrix}$
	(c) 3
Direction (161 – 165): What will come in the place of	(d) 5
question (?) mark in following the question:	(e) 6
Q161. $36 \div 4 \times 7 + 4 \times 4.5 = ?^2$	
(a) 9	Q168. 4 [?] + 79.98% of 980.03 = 1039.99
(b) 7	(a) 4
(c) 19	(b) 2
(d) 17	(c) 3
(e) 3	(d) 5
	(e) None of these
Q162. $\sqrt{1849} - \sqrt{256} = \sqrt{?} - \sqrt{144}$	0169 $\frac{1512.01}{100}$ + 49 99% of 488 - 70 03% of 399 99
(a) 1681	Q109. ? + 49.99% 01 400 = 70.03% 01 399.99
(b) 1600	(a) 64 (b) 22
(c) 1296	(D) 32 (c) 49
(d) 1446	(d) 36
(e) 1521	(e) 42
Q163. 250% of $30 - 175\%$ of $36 + 5^2 =?$	Q170. ?% of 639.98 + 40.03% of 279.99 = (19.99) ²
(a) 27	(a) 25
(b) 18	(b) 50
(c) 37	(c) 35
(d) 21	(d) 45
(e) 31	(e) 40
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200 Quantitative Aptitude Questions for LIC AAO **Q174.** The difference between number of food products Direction (171-175): Read the given information carefully and answer the following questions. and dairy products produced in 2015 and 2018 together is 12000. Find the average of dairy products and Line graph shows production of three products in terms beverages produced by company in 2017? of percentage (out of total production in the year) in four (a) 30000 different years. (b) 22500 (c) 20000 ----- Food Products ----- Dairy products (d) 24000 Beverages (e) 25000 70 **Q175.** Find the total production in 2019 if there was an 60 increase of 20% in production in 2019 as compared to previous year given that number of dairy products in 50 2015 was 18000? 40 (a) 1,20,000 (b) 1,08,000 30 (c) 1,18,000 20 (d) 1,12,000 (e) None of these 10 0 Directions (176-180): What comes at the place of 2015 2016 2017 2018 question marks: **Q176.** 588, 640, ? 562, 614, 536, 1.Company produces three different products i.e. food, (a) 552 dairy and beverages. (b) 510 2.Total production of the company was same in all years. (c) 542 (d) 532Q171. In 2016, quantity of food products and dairy (e) 572 products produced is what percent more or less than that of beverages produced in year 2015 and 2016 together? 52, 102, 202, 402, ? **Q177.** 27, (a) $13\frac{1}{3}\%$ (a) 912 (b) 892 (b) 15% (c) 922 (c) $16\frac{2}{3}\%$ (d) 932 (d) 12.5% (e) 802 (e) 10% **Q178.** 17, 41, 91, 171, 293, ? Q172. If total number of products produced in year 2018 (a) 461 was 1,50,000. Find the difference between number of food (b) 481 (c) 471 products produced in 2017 and number of dairy products (d) 491 produced in 2015 and 2016 together? (e) 451 (a) 12000 (b) 18000 **TEST SERIES** (c) 12500 BILINGUAL (d) 10000 (e) 15000 Q173. Find the ratio of average of number of food LIC ADO products produced in 2015, 2017 and 2018 to total number of beverages produced in 2016 and 2017 PRE+MAINS together. (a) 3: 2 (b) 2: 3 (c) 3:5 70+ TOTAL TESTS (d) 5: 3

(e) 3: 4

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Q179. 35,	7,	42,	8.4,	50.4,	?	
(a) 9.62						
(b) 8.76						
(c) 12.56						
(d) 10.08						
(e) 11.02						
Q180. 24,	60,	90,	225,	337.	5, ?	
(a) 812.75						
(b) 843.75						
(c) 792.75						
(d) 875.75						
(e) 896.75						

Direction (181-185): Line graph given below shows the selling prices (in rupees) of three types of Refrigerators (A, B & C) in four different years i.e. 2016, 2017, 2018, and 2019 for a shopkeeper



Q181. If a discount of 24% is given on refrigerator C sold in 2018 and ratio of MP to CP of C in 2018 is 5 : 3. then find the difference between the discount allowed and profit earned on C in 2018. (in rupees)

(a) 5000

- (b) 4000
- (c) 2000
- (d) 6000
- (e) 3000

Q182. Find out average selling price of refrigerator A in all the given years. (in rupees)(a) 16500(b) 22500(c) 18500

- (d) 19500
- (e) 25500

Q183. Find out the ratio between selling price of refrigerator C in 2018 and the selling price of refrigerator A in 2017?
(a) 20:21
(b) 18:25
(c) 19:25
(d) 23:27
(e) 16:25

Q184. In which year sum of selling price of all 3 type of the refrigerator was the lowest?

- (a) 2019 (b) 2016
- (c) 2017
- (d) 2018
- (e) 2016 and 2018

Q185. selling price of refrigerator A in year 2018 is approx. what percent of selling price of refrigerator B in 2019?

- (a) 78%
 (b) 88%
 (c) 82%
 (d) 72%
- (e) 93%

Direction (186 – 190): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give the answers accordingly.

(a) if x>y (b) if x≥y

(c) if x<y

(d) if $x \leq y$

(e) if x = y or no relation can be established between x and y.

Q186. I. x² – 14x + 48 = 0 II. y² – 17y + 72 =0

Q187. I. x² + 13x + 42 = 0 II . y² + 15y + 56 = 0

Q189. $2x^2 + 9x + 9 = 0$ $y^2 + 28y + 192 = 0$

```
Q190. I \cdot x^2 - 9x + 20 = 0
II. y^2 - 6y + 9 = 0
```





Directions (191-195) : What should come in place of the	Q196. If the sum of the price of one kg sugar and one kg		
question mark (?) in the following number series.	salt together is Rs.84 and the ratio of price of one kg of		
0101 00 EE 7E 142E 2 962E	sugar and one kg of salt is 11: 10. Then, find the difference		
(2) 205	between the total price of Sugar and salt purchased by		
(a) 205 (b) 225	man?		
(b) 525 (c) 470	(a) Rs. 220		
(d) 855	(b) Rs. 240		
(e) 270	(c) Rs. 260		
	(d) Rs. 300		
0192. 5. 12. 39. 160. ?. 4836	(e) Rs. 280		
(a) 850			
(b) 750	Q197. If the total price of tea is Rs. 900 and that of rice is		
(c) 800	Rs. 1500, then find the price of one kg tea is what percent		
(d) 805	more than that of rice?		
(e) 820	(a) 0%		
	(b) 20%		
Q193. 26, 36, 54, 80, 114, ?	(c) 5%		
(a) 146	(d) 10%		
(b) 133	(e) 15%		
(c) 201			
(d) 134	0198 If the price of one kg of pulse and one kg of oil is Rs		
(e) 156	62 and Ps. 42 respectively, then find the ratio of the total		
0104 17 25 40 07 177 2	by and KS. 42 respectively, then find the ratio of the total		
Q194. 17, 25, 49, 97, 177, ?	co 12.25		
(a) 257 (b) 247	(a) 13:25		
(c) 358	(b) 1:2		
(d) 292	(c) 3:5		
(e) 279	(d) 18:25		
	(e) 12:13		
Q195. 21, 28, 42, 64, 95, ?			
(a) 125	Q199. The total quantity of sugar and salt purchased		
(b) 158	together by man is what percent of the total quantity of		
(c) 142	rice and pulse together purchased by man?		
(d) 136	(a) $87\frac{1}{2}$ %		
(e) 164	(u) 07 3 /0 1		
	(b) $83\frac{1}{3}\%$		

Direction (196 – 200): Given below the bar graph shows the quantity of six different items (in kg) purchased by a person during the lockdown period. Read the data carefully and answer the questions.



Q200. If the price of one kg salt, one kg rice, and one kg oil is Rs. 56, Rs. 32 and Rs. 40 respectively, then find out the total price of oil, salt, and rice purchased by man? (a) Rs. 2000 (b) Rs. 2800

(c) Rs. 2200

(c) 74%

(d) 92%

(e) $64\frac{1}{3}\%$

(d) Rs. 1800 (e) Rs. 2600



Solutions

S9. Ans.(d)

S1. Ans.(e)

Sol. $\sqrt{5776} - \sqrt{1444} + \sqrt{729} = 43 + ?$ 76 - 38 + 27 = 43 + ??=65 - 43 = 22

S2. Ans.(a)

Sol. 78 ×26÷6 +1262= 1311 + (?)² 2028÷6+1262 =1311 +(?)² 338+1262 =1311+(?)² (?)²=1600 -1311 =289 ? = $\sqrt{289}$ =17

S3. Ans.(a)

Sol. 1484÷28 + 1462÷34 -12×7=? ?=53+43 -84 = 12

S4. Ans.(c)

Sol. 42.5×15 +37.5×25=1420 + ? 637.5+937.5 =1420 + ? ?= 1575 - 1420 = 155

S5. Ans.(b) Sol. 2450 +3760 -3830 =6000 - ? 2380 =6000 - ? ?=6000 -2380 = 3620

S6. Ans.(e) Sol. $\binom{\frac{4}{5}of25}{64} \div \left(432 - 20^2 + \frac{3}{7}of\ 21\right) \times (82) =? of\ \frac{1}{64}$ $\binom{5}{16} \div (432 - 400 + 9) \times (82) =? \times \frac{1}{64}$ $? = \frac{5}{16} \times \frac{1}{41} \times 82 \times 64 = 40$

S7. Ans.(a)

Sol. 55% of 900 + 70% of 1050 = ?% of 3000 $\frac{55}{100} \times 900 + \frac{70}{100} \times 1050 = \frac{?}{100} \times 3000$ $495 + 735 = 30 \times ?$ $30 \times ? = 1230$? = 41

S8. Ans.(b) Sol. 73823 - 34156 + 4756 + 6758 - 9849 = 41499 - 160-? 41332 = 41339-? ?= 7

```
14 = ? - 36
?= 50
Sol. 84 × \frac{1}{4} \div 21^2 + ? = \frac{7}{147} \times 21 - \frac{20}{21}
84 × \frac{1}{4} × \frac{1}{441} + ? = 1 - \frac{20}{21}
\frac{1}{21} + ? = \frac{1}{21}
?= 0
Sol. \sqrt{\frac{3840}{60} + \frac{1440}{40} - \frac{1330}{70}}
= \sqrt{64 + 36 - 19}
= \sqrt{81}
=9
S12. Ans.(c)
Sol. 25 \times 18 + \frac{4200}{40} - \frac{525}{105} = 740 - ?
```

Sol. $\frac{5599}{1331} \times \frac{3773}{2036} \times \frac{88}{49} = ? - 6^2$

450+105-5=740 -? ?= 740-550 =190

S13. Ans.(d) Sol. $3845+4380+2640 - 5965 = (?)^2$ $(?)^2=10865 - 5965$ =4900 $?=\sqrt{4900}$ =70

S14. Ans.(b) Sol. 400 ÷ 20 × 35 + 6666 ÷ 33+ ? = 1100 20× 35 + 202+? = 1100 ?=1100-(700+202) =1100- 902 =198

S15. Ans.(b) Sol. 28×14.5+1680÷15+445=1000 -? 406+112+445=1000-? 963=1000-? ?=1000-963=37





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S16. Ans.(c)

Sol. $\frac{130}{100} \times 1200 + \frac{1250}{50} \times 30 = ?$ $130 \times 12 + 25 \times 30 = ?$? = 1560 + 750 ? = 2310

S17. Ans.(a)

Sol. $\frac{156}{13} + (3)^2 \times 40 = \frac{?}{100} \times 600$ $12 + 9 \times 40 = ? \times 6$ $? = \frac{372}{6} = 62$

S18. Ans.(a) Sol. $\sqrt{81 \times 36} + \frac{680}{17} = ? + (512)^{\frac{1}{3}}$ $\sqrt{2916} + 40 = ? + 8$? = 54+ 40 - 8 = 86

S19. Ans.(e)

Sol. $\frac{1600}{100} \times 140 + \frac{?}{100} \times 1600 = 72 \times 40$ $16 \times 140 + 16 \times ? = 72 \times 40$ $2240 + 16 \times ? = 2880$ $? = \frac{640}{16} = 40$

S20. Ans.(d)

Sol. (17)² + (22)² + (8)² + ? = 1750 - 820 + 2210 ? + 289 + 484 + 64 = 1750 - 820 + 2210 ? = 2303

S21. Ans.(a) Sol. $308 + 672 - \frac{40}{100} \times ? + \frac{80 \times 355}{100} = (28)^2$ $980 + 284 - 784 = \frac{2 \times ?}{5}$ $? = \frac{480 \times 5}{2}$? = 1200

S22. Ans.(b) Sol. $\frac{\frac{178+?}{8}}{100} + 25 \times 42 - \frac{16}{100} \times 400 = (32)^{2}$ $\frac{\frac{178+?}{8}}{100} = 1024 + 64 - 1050$ $\frac{178+?}{100} = 126$

S23. Ans.(e) Sol. $\sqrt{1296} + \sqrt{2025} + \sqrt{1521} - \sqrt{?} = \frac{13}{100} \times 900$ $36 + 45 + 39 - \sqrt{?} = 117$ $\sqrt{?} = 120 - 117$? = 9 S24. Ans.(b) Sol. $350 + \frac{56 \times 240}{14} + \sqrt{?} = (11)^3$ $\sqrt{?} = 1331 - 350 - 960$ $\sqrt{?} = 21$? = 441 S25. Ans.(c) Sol. $32 \times 35 + \sqrt{961} + \frac{19 \times ?}{100} = \frac{40}{100} \times 3305$ $1120 + 31 + \frac{19 \times ?}{100} = 1322$ $\frac{19\times?}{100} = 1322 - 1151$ $? = \frac{171\times100}{19}$? = 900S26. Ans.(b) Sol. $1782 \div 54 + 456 - 2346 \times 1 = ? \times 3$ \Rightarrow 33 + 456 - 2346 = ? × 3 $\Rightarrow -1857 = ? \times 3$ $\Rightarrow ? = \frac{-1857}{2}$ = -619 S27. Ans.(c) Sol. $(575 + 7511 - 2769) \div (76 \times 1 + 675 - 342) = \sqrt{?}$ $= 5317 \div 409 = \sqrt{?}$ \Rightarrow ? = (13)² = 169 S28. Ans.(a) Sol. $\left[\left(\sqrt{3844 \times 9}\right) \div (27)^{\frac{1}{3}}\right] \times 23 = ?^{2} + 337$ $\Rightarrow [(62 \times 3) \div 3] \times 23 = ?^2 + 337$ \Rightarrow 1426 - 337 = ?² \Rightarrow ? = $\sqrt{1089}$ = 33 S29. Ans.(d) Sol. $= \sqrt{(96) \times 12 \div 18 + 26 - 9} = (65 - ?)\% \text{ of } 36$ $\Rightarrow 9 = \frac{(65 - ?)}{100} \times 36 \Rightarrow (65 - ?) = \frac{9 \times 100}{36}$ $\Rightarrow ? = 65 - 25 = 40$

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6052

(6)²

S43. Ans.(d) S49. Ans.(a) Sol. Sol. $32\% of 600.02 - 19.99\% of 400.04 + ? = 859.99 \div 2$ Wrong no. = 120 $\frac{32}{100} \times 600 - \frac{20}{100} \times 400 + ? = \frac{860}{2}$ 118 + 7 = 125125 + 11 = 136192 - 80 + ? = 430136 + 13 = 149? = 318149 + 17 = 166166 + 19 = 185S44. Ans.(b) 185 + 23 = 208Sol. $\frac{141}{20.09} + \frac{279.89}{39.99} - \sqrt{?} = 10.01$ $\frac{140}{20} + \frac{280}{40} - \sqrt{?} = 10$ \$50. Ans.(b) Sol. $\sqrt{?} = 7 + 7 - 10$ Wrong no. = 214 ? = 16 $205 + 2^3 = 213$ $213 - 3^3 = 186$ S45. Ans.(c) $186 + 4^3 = 250$ Sol. $250 - 5^3 = 125$ $8.98 \times 60.02 - 19.99^2 + 10.01\%$ of 130.09 = ? $125 + 6^3 = 341$ $9 \times 60 - 20^2 + \frac{10}{100} \times 130 = ?$ $341 - 7^3 = -2$ 540 - 400 + 13 = ?? = 153**S51**. Ans.(b) S46. Ans.(d) Sol. Wrong number = 810 Sol. Pattern of series -Wrong no. = 22 814 $28 \times 0.5 = 14$ + 6 $14 \times 1 = 14$ $14 \times 1.5 = 21$ $21 \times 2 = 42$ So, there should be 814 in place of 810. $42 \times 2.5 = 105$ $105 \times 3 = 315$ S52. Ans.(d) S47. Ans.(e) **Sol.** Wrong number = 350 Sol. Pattern of series -Wrong no. = 47 1024 348 $5 + (1^2 + 1) = 7$ +196 + 4 8 4 -324 -676 $7 + (2^2 + 2) = 13$ $13 + (3^2 + 3) = 25$ $25 + (4^2 + 4) = 45$ $(26)^{2}$ (22)² (18)² $(14)^2$ $(10)^{2}$ $45 + (5^2 + 5) = 75$ So, there should be 348 in place of 350. $75 + (6^2 + 6) = 117$ \$53. Ans.(a) S48. Ans.(d) Sol. Wrong number = 646 Sol. Pattern of series -Wrong no. = 2400 190 210 $288000 \div 12 = 24000$ $24000 \div 10 = 2400$ +20 $2400 \div 8 = 300$ $300 \div 6 = 50$ $50 \div 4 = 12.5$ So, there should be 650 in place of 646. $12.5 \div 2 = 6.25$

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Sol. Wrong number = 1 Pattern of series –



So, there should be 2 in place of 1.

S60. Ans.(b)

Sol. Wrong number = 1990

Pattern of series -

21	00	213	36 19	92 23	16 17	40 2	640	1344
	+3	6	-144	+324	-576	+900	-12	296
	1		1	1	1	1	1	
	(6)	2	$(12)^2$	$(18)^2$	$(24)^2$	(30)	² (3	6) ²
с -	4 1		1 . 1	1002:		61000		

So, there should be 1992 in place of 1990.

S61. Ans.(a)

 $2x^2 + x - 6 = 0$ $2x^2 + 4x - 3x - 6 = 0$ 2x(x+2) - 3(x+2) = 0(2x-3)(x+2) = 0x = 1.5, -2 $v^2 + 6v + 9 = 0$ $y^{2} + 3y + 3y + 9 = 0$ y(y + 3) + 3(y + 3) = 0 (y+3)(y+3) = 0y = -3, -3So, x > y

S62. Ans.(d)

```
x^2 - 4x + 4 = 0
x^2 - 2x - 2x + 4 = 0
x(x-2) - 2(x-2) = 0
(x-2)(x-2) = 0
x = 2.2
y^2 - 10y + 16 = 0
y^2 - 8y - 2y + 16 = 0
So, x < v
```

So, there should be 256 in place of 255.





BANKERS 200 Quantitat	200 Quantitative Aptitude Questions for LIC AAO		
S663. Ans.(e)	S66. Ans.(a)		
Sol.	Sol.		
I:	I:		
$2x^2 + 7x + 6 = 0$	$4x^2 - 20x + 25 = 0$		
$2x^2 + 3x + 4x + 6 = 0$	$4x^2 - 10x - 10x + 25 = 0$		
x(2x+3) + 2(2x+3) = 0	2x(2x-5) - 5(2x-5) = 0		
(2x+3)(x+2) = 0	(2x-5)(2x-5) = 0		
$x = -\frac{3}{2}, -2$	$x = \frac{5}{2}, \frac{5}{2}$		
II:	II:		
$3y^2 + 11y + 10 = 0$	$5y^2 - 6y - 8 = 0$		
$3y^2 + 6y + 5y + 10 = 0$	$5y^2 - 10y + 4y - 8 = 0$		
3y(y+2) + 5(y+2) = 0	5y(y-2) + 4(y-2) = 0		
(3y+5)(y+2) = 0	(5y+4)(y-2) = 0		
$y = -\frac{5}{3}, -2$	$y = 2, -\frac{4}{5}$		
So, no relation can be established.	So, $x > y$		
\$64 Ans (d)	\$67. Ans.(b)		
Sol	Sol		
501. L	J.		
l:	$r^2 - 2r - 15 = 0$		
$x^2 - 2x - 24 = 0$	$x^{2} - 2x - 15 = 0$ $x^{2} - 5x + 2x - 15 = 0$		
$x^2 - 6x + 4x - 24 = 0$	$x^{2} = 3x + 3x - 13 = 0$		
x(x-6) + 4(x-6) = 0	x(x-3) + 3(x-3) = 0		
(x-6)(x+4) = 0	(x+3)(x-5) = 0		
x = -4, 6	x = -3, 5		
II:			
$y^2 - 12y + 36 = 0$	$y^2 - 15y + 56 = 0$		
$y^2 - 6y - 6y + 36 = 0$	$y^2 - 8y - 7y + 56 = 0$		
y(y-6) - 6(y-6) = 0	y(y-8) - 7(y-8) = 0		
(y-6)(y-6) = 0	(y-7)(y-8) = 0		
<i>y</i> = 6, 6	y = 7, 8		
So, $x \leq y$	So, $x < y$		
\$65 Ans (a)	S68. Ans.(e)		
Sol	Sol.		
501. I.	I:		
1: $4x^2 + 11x + 6 = 0$	$10x^2 + 19x + 7 = 0$		
$4x^2 + 11x + 6 = 0$	$10r^2 + 14r + 5r + 7 = 0$		
$4x^2 + 8x + 3x + 6 = 0$	2r(5r + 7) + 1(5r + 7) = 0		
4x(x+2) + 3(x+2) = 0	(2x + 1)(5x + 7) = 0		
(4x+3)(x+2) = 0	(2x + 1)(3x + 7) = 0		
$x = -\frac{3}{4}, -2$	$x = -\frac{1}{2}, -\frac{1}{5}$		
II:			
$y^2 + 10y + 25 = 0$	$5y^2 + 16y + 12 = 0$		
$y^2 + 5y + 5y + 25 = 0$	$5y^2 + 6y + 10y + 12 = 0$		
y(y+5) + 5(y+5) = 0	y(5y+6) + 2(5y+6) = 0		
(y+5)(y+5) = 0	(y+2)(5y+6) = 0		
y = -5, -5	$y = -2, -\frac{6}{5}$		

So, no relation can be established.

So, *x* > *y*





BAIMERS	200 Quantitative Aptitud	le Questions for LIC AAU
S69. Ans.(a)		S72. Ans.(c)
Sol.		Sol.
I.		I:
1:		$x^2 - 18x + 56 = 0$
$x^2 - 20x + 75 = 0$		$x^2 - 14x - 4x + 56 = 0$
$x^2 - 15x - 5x + 75 = 0$		x(x-14) - 4(x-14) = 0
r(r-15) - 5(r-15) = 0		(x-4)(x-14) = 0
x(x = 15) = 5(x = 15) = 0		x = 4.14
(x-5)(x-15) = 0		II:
x = 5, 15		$v^2 + 4v - 32 = 0$
II:		$v^2 + 8v - 4v - 32 = 0$
$v^2 + 19v + 84 = 0$		y(y+8) - 4(y-8) = 0
$y^{2} + 12y + 7y + 84 = 0$		(y-4)(y+8) = 0
y(y + 12) + 7(y + 12) = 0		y = -8, 4
y(y + 12) + 7(y + 12) = 0		So, $x \ge y$
(y+12)(y+7) = 0		
y = -12, -7		\$73. Ans.(d)
So, $x > y$		Sol.
		I:
570 Apr (a)		$x^2 + 14x - 72 = 0$
370. Alls.(e)		$x^2 + 18x - 4x - 72 = 0$
Sol.		x(x+18) - 4(x+18) = 0
I:		(x+18)(x-4) = 0
$x^2 - 9x - 22 = 0$		x = -18, 4
x^{2} 11x 12x 22 - 0		II:
x = 11x + 2x - 22 = 0		$y^2 - 13y + 36 = 0$
x(x - 11) + 2(2x - 11) = 0		$y^2 - 9y - 4y + 36 = 0$
(x+2)(x-11) = 0		y(y-9) - 4(y-9) = 0
x = -2, 11		(y-4)(y-9) = 0
II:		y = 4, 9
$v^2 - 17v + 66 = 0$		So, $x \leq y$
y^{2} 11y 6y 166 - 0		
y = 11y = 0y + 00 = 0		S74. Ans.(d)
y(y-11) - 6(y-11) = 0		501. L
(y-11)(y-6) = 0		1: $r^2 - 0^2 - 12^2$
y = 6, 11		$x^{2} - 144 \pm 81$
So, no relation can be established.		$x^2 - 225$
		x = 223 r = 15 = 15
\$71 Apc (b)		$\chi = 10, 10$
571. Alls.(b)		$v^3 = 3375$
501.		y = 15
I:		So, $x \le y$
$4x^2 + 19x + 15 = 0$		
$4x^2 + 15x + 4x + 15 = 0$		S75. Ans.(b)
x(4x + 15) + 1(4x + 15) = 0		Sol.
(4r + 15)(r + 1) = 0		I:
(4x + 15)(x + 1) = 0		$\frac{5}{x^2} \frac{3}{x^2}$
x = -1, -15		$\frac{1}{28} = \frac{1}{7}$
11:		$x^{\frac{5}{2}-\frac{3}{2}} = \frac{28}{2}$
$8y^2 + 10y + 3 = 0$		r = 7
$8y^2 + 6y + 4y + 3 = 0$		$\lambda - \tau$
2y(4y+3) + 1(4y+3) = 0		$11v + (7 \times 6) = 97$
(4y+3)(2y+1) = 0		11v + 42 = 97
		11y = 55
$y = -\frac{1}{4}, -\frac{1}{2}$		y = 5
So, $x < y$		So, $x < y$



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BANKERS 200 Quantitative Aptitud	le Questions for LIC AAO
\$83. Ans.(d)	\$87. Ans.(b)
Sol.	Sol.
$I_{x}x^{2} + 12x + 32 = 0$	$1 r^2 - 14r + 45 = 0$
$x^{2}+8x+4x+32=0$	$r^2 = 9r = 5r \pm 45 = 0$
x(x+8)+4(x+8)=0	x = 9x = 5x + 45 = 0
(x+8)(x+4)=0	x(x-9) - 5(x-9) = 0
v = -8 = 4	(x-9)(x-5) = 0
$x = 0, \pm 12 = 0$	x = 9, 5
$\begin{array}{llllllllllllllllllllllllllllllllllll$	II. $y^2 + 2y - 35 = 0$
$y^2 + 3y + 4y + 12 = 0$	$y^2 + 7y - 5y - 35 = 0$
y(y+3)+4(y+3)=0	y(y+7) - 5(y+7) = 0
(y+4)(y+3)=0	(y-5)(y+7) = 0
y = -4, -3	y = 5 - 7
So, $y \ge x$	$y = 3$, γ
	$50, x \ge y$
S84. Ans.(a)	
Sol.	\$88. Ans.(e)
I. $3x^2 + 16x + 20 = 0$	Sol.
$3x^2 + 6x + 10x + 20 = 0$	$I. x^2 + 11x + 18 = 0$
3x(x+2) + 10(x+2) = 0	$x^2 + 9x + 2x + 18 = 0$
(3x+10)(x+2)=0	x(x+9) + 2(x+9) = 0
$v = 2^{10}$	(x + 9)(x + 2) = 0
$x - 2, -\frac{3}{3}$	(x + y)(x + 2) = 0 x = -2 0
II. $y^2 + 14y + 48 = 0$	x = -2, -9
$y^2 + 8y + 6y + 48 = 0$	$11. y^2 + 6y + 8 = 0$
y(y +8)+6(y+8)=0	$y^2 + 4y + 2y + 8 = 0$
(y+6)(y+8)=0	y(y+4) + 2(y+4) = 0
y =-6, -8	(y+4)(y+2) = 0
So, x > y	y = -4, -2
	So, no relation can be established
\$85. Ans.(e)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Sol.	\$89 Ans (c)
I. $x^2 + x - 72 = 0$	Sol
x ² + 9x-8x-72=0	$\int dx^2 + F x + 6 = 0$
x(x+9)-8(x+9)=0	1. x + 5x + 0 = 0
(x+9)(x-8)=0	$x^2 + 3x + 2x + 6 = 0$
x = 8 - 9	x(x+3) + 2(x+3) = 0
$11 v^2 + 13v + 42 = 0$	(x+3)(x+2) = 0
$v^2 + 6v + 7v + 42 = 0$	x = -3, -2
y(y+6)+7(y+6)=0	II. $y^2 - 15y = 16$
y(y+0)(y+7)=0	$y^2 - 15y - 16 = 0$
y = -6 -7	$v^2 - 16v + v - 16 = 0$
y = -0,-7	y(y - 16) + 1(y - 16) = 0
so, no relation can be established between x and y.	y(y = 10) + 1(y = 10) = 0 (y + 1)(y = 16) = 0
60(Area (a)	(y+1)(y-10) = 0
586. ANS.(C)	y = -1, 10
	Clearly, $x < y$
$1. x^2 + 5x + 6 = 0$	
$x^2 + 3x + 2x + 6 = 0$	S90. Ans.(a)
x(x+3) + 2(x+3) = 0	Sol.
(x+3)(x+2) = 0	Multiplying II by 3 and subtracting II from I, we get,
x = -2, -3	v = -1 and $x = 3$
II. $y^2 - 9y + 14 = 0$	$S_0 x > y$
$y^2 - 7y - 2y + 14 = 0$	
y(y-7) - 2(y-7) = 0	601 And (h)
(y-2)(y-7) = 0	ЗУТ. AIIS.(D) (22, 22), 10
v = 2.7	Sol. Required percentage = $\frac{(22+23)-10}{22+23} \times 100$
So. v>x	~ 722+23
	~ /0/0





S92. Ans.(c) Sol. Required average $=\frac{1}{3} \times (12 + 15 + 18)\% \times 22500$ $=\frac{15}{100} \times 22500$ = 3375

Sol. Required no. of passenger = $22500 \times \frac{23-12}{100} = 2475$

S94. Ans.(d)

Sol. Required ratio = $22500 \times \frac{10}{100} \times \frac{7}{15}$: $22500 \times \frac{23}{100} \times \frac{5}{23}$ = 14: 15

S95. Ans.(a)

Sol. Passenger travelling to Rewari = $22500 \times \frac{18}{100} = 4050$ Passenger travelling to Panipat = $22500 \times \frac{15}{100} = 3375$ Required difference = $3375 \times 75 \times \frac{4}{3} - 4050 \times 75$ = $75 \times (4500 - 4050)$ = 75×450 = 33750 Rs.

Sol (96-100): -

For city C Total population of city C = $\frac{6000}{6.25} \times 100 = 96000$ Literate population of city C = 96000 $\times \frac{2}{2} = 64000$ Illiterate population = 96000 $\times \frac{1}{3}$ = 32000 Graduate population = $64000 \times \frac{40}{100} = 25600$ For city **B** Total population = 16000 Literate population = 6000Illiterate population = 16000 - 6000 = 10000Graduate population = $6000 \times \frac{40}{100} = 2400$ For city A Total population = 22000 Literate population = $22000 \times \frac{5}{11} = 10000$ Illiterate population = 22000 - 10000 = 12000Graduate population = $10000 \times \frac{40}{100} = 4000$ S96. Ans.(c) **Sol.** Required percentage = $\frac{6000}{12000} \times 100 = 50\%$

S97. Ans.(d) Sol. Required ratio = 25600: 16000 = 8:5

S98. Ans.(a) Sol. Required difference = 32000 - 2400 = 29600 **S99.** Ans.(b) **Sol.** Population which is literate but ungraduated from city A = $10000 \times \frac{60}{100} = 6000$ Required percentage = $\frac{6000}{2400} \times 100 = 250\%$

S100. Ans.(c)

Sol. Graduate male from city $C = \frac{25600}{16} \times 9 = 14400$ Literate but ungraduated from city $B = 6000 \times \frac{60}{100} = 3600$ Required difference = 14400 - 3600 = 10800

S101. Ans.(b)

Sol. Cost price of per kg rice $=\frac{2200}{55} \times \frac{100}{160} = Rs.25$ Selling price of per kg sugar $=\frac{1200}{40} = Rs.30$ Required difference = 30 - 25 = Rs.5 less

S102. Ans.(e) **Sol.** selling price of one kg wheat $=\frac{900}{45} = Rs. 20$ Selling price of one kg salt $=\frac{600}{60} = Rs. 10$ Required average selling price $=\frac{20\times3+10\times2}{3+2} = \frac{80}{5}$ = Rs. 16 per kg

Sol. Required percentage = $\frac{900}{2200-600} \times 100 = 56.25\%$

S104. Ans.(b) **Sol.** selling price of a kg pulse = $\frac{3750}{50} = Rs.75$ Profit earned on selling of one kg pulse = 75 - 60 = Rs.15Total profit = $15 \times 40 = Rs.600$

S105. Ans.(e) **Sol.** Required average quantity $=\frac{1}{3} \times (55 + 50 + 45)$ $=\frac{150}{3}$ = 50 kg

S106. Ans.(a) Sol. No. of male student playing Hockey of college L = $450 \times \frac{8}{9} = 400$ Average no. of student playing Hockey of college M & O = $\frac{400+500}{2}$ = 450Required percentage = $\frac{400}{450} \times 100 = 88\frac{8}{9}\%$





S107. Ans.(c)

Sol. Student who left playing Cricket of college N = $350 \times \frac{1}{7} = 50$ Total student playing Football of college N = 450 + 50 = 500Required ratio = $\frac{500+300}{500+300} = 1 : 1$

S108. Ans.(b)

Sol. Average no. of student playing Hockey of college K, L and 0 $= \frac{(250+450+500)}{3} = 400$

Average no. of student playing Football of college K, L and M = $\frac{400+350+300}{2}$ = 350

Required difference = 400 - 350 = 50

S109. Ans.(e)

Sol.

Total no. of student playing Cricket of college L and M together = 400 + 300 = 700 Total no. of student playing Hockey of college K and M together

= 250 + 400 = 650 Required percentage = $\frac{700-650}{650} \times 100 = 7\frac{9}{13}$ %

S110. Ans.(d)

Sol.

Total student in college K in 2014 = 400 + 500 + 250 = 1150 Total student in college K in 2015 = 1150 $\times \frac{120}{100}$ = 1380 Student playing Football of college K in 2015 = 1380 $\times \frac{5}{10}$ = 690 Required average = $\frac{400+690}{2}$ = $\frac{1090}{2}$ = 545

Sol (111-115)

ATQ, Mortality rate for China = $\frac{4000}{80000} \times 100 = 5\%$ Mortality rate for USA = $\frac{11000}{350000} \times 100 = 3.14\%$ Mortality rate for Italy = $\frac{17500}{130000} \times 100 = 13.46\%$ Mortality rate for Spain = $\frac{15000}{140000} \times 100 = 10.71\%$ S111. Ans.(b) Sol. USA has lowest mortality rate, which is 3.14% S112. Ans.(d) Sol. Required $\% = \frac{350000 - 17500}{17500} \times 100 = 1900\%$ S113. Ans.(c) Sol. Required ratio $= \frac{\frac{15000}{40000} \times 100}{\frac{4000}{80000} \times 100} = 15:7$ S114. Ans.(a) Sol. Required $\% = \frac{4000 + 11000 + 17500 + 15000}{80000} \times 100 = 59.375\%$ S115. Ans.(e) Sol. New total confirmed cases in china = $80000 \times \frac{5}{4} = 100000$

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Mortality rate in china is 5%.

New number of total deaths = $100000 \times \frac{5}{100} = 5000$

Sol. Price of a one kg sugar = $84 \times \frac{11}{21} = Rs \ 44$ Price of one kg of salt = $840 \times \frac{10}{21} = Rs \ 40$ Required difference = $(20 \times 44 - 15 \times 40)$ = 880 - 600= $Rs.\ 280$

S117. Ans.(a) Sol. Price of one kg of tea $=\frac{900}{18} = Rs50$ Price of one kg of rice $=\frac{1500}{30} = Rs50$ Required $\% = \frac{50-50}{50} \times 100 = 0\%$

Sol. Required ratio $=\frac{63 \times 12}{42 \times 25} = \frac{18}{25}$

S119. Ans.(b) Required%= $\frac{20+15}{30+12} \times 100 = 83\frac{1}{3}\%$

S120. Ans.(b) Sol. Required sum = (56 × 15) + (32 × 30) + (40 × 25) = 2800 Rs.







S121. Ans.(c) Sol. Let length of train A = l metres. And let speed of train A = S m/s. ATQ, Speed of train B = $\frac{450+150}{24}$ = 25 m/sSpeed of train A, S = $\frac{l+230}{20}$...(i) Now, $25 - S = \frac{450 + l}{160}$ $S = 25 - \frac{450+l}{100}$...(ii) On solving (i) & (ii): $\frac{l+450}{160} = 25 - \frac{l+230}{29}$ l=350 metres. So, speed of train A = $\frac{350+230}{29}$ = 20 m/s.Required time = $\frac{350+50}{20}$ = 20 sec. S122. Ans.(e) Sol. Let the speed of train A and train B be 17X m/s and 13X m/s respectively. And let the length of train B = Y meter ATQ, $\frac{950+Y}{17X-13X} = 16$ Y = 64X - 950, So, length can't be determined with given data. S123. Ans.(d) Sol. Let length of train = 2L mLength of tunnel = L mATQ, $3L = 144 \times \frac{5}{18} \times 30$ L = 400 mLength of train = 800 m \therefore Length of other train = 2 × 800 = 1600 m 60% of speed = $144 \times \frac{5}{18} \times \frac{60}{100} = 24$ m/sec. \therefore (1600 + 800) = 24 × time \therefore time = 100 sec. S124. Ans.(b) Sol. Let us assume the original speed of Deepak be 4x km/hr and original time taken by Deepak be T hr.

ATQ, decreased speed of Deepak = 3x km/hr, And increased time of Deepak = $(T + \frac{24}{c})$ = (T + 0.40) hours So, $4x \times T = 3x \times (T + 0.4)$ T = 1.2 hour = 72 minutes

S125. Ans.(b) Sol.

let speed of boat in still water and speed of Stream be P and Q kmph respectively.

ATQ,

 $P-Q = \frac{40}{5} = 8 \, kmph$ (Upstream Speed) P+Q = 16 kmph (Downstream Speed) ATQ, Downstream Speed, X-4 = P+QSo, X = 16+4 = 20.

S126. Ans.(c)

Sol. Given distance between P and Q is 900 km. speed of car B = $\frac{900}{(X+4)}$ km/h. Speed of car A = $\frac{900}{v}$ km/h. ATQ, Car B started from P at 6:00am and car A started from P at 8:00 am They both met at 10:30 am i.e. $\frac{900}{(X+4)} \times \frac{9}{2} = \frac{900}{X} \times \frac{5}{2}$ \Rightarrow 9X = 5 (X+4) $\Rightarrow 4X = 20$ X = 5 hours So, speed of car B = $\frac{900}{(5+4)}$ = 100 kmph. Required distance= $100 \times \frac{9}{2} = 450$ km

S127. Ans.(b) Sol.

Now, let speed of the boat in still water and the speed of the stream be a km/hr. & b km/hr. respectively. So, upstream speed of boat = (a - b) km/hr.

ATQ,

$$a - b = 15$$

Required time= $\frac{120}{(a-b)}$
 $= \frac{120}{15}$
=8 hr.

S128. Ans.(c)

Sol. Let the distance between Amit's home and his office is D km.

ATQ,
$$\frac{D}{30} + \frac{D}{X} = \frac{2D}{33}$$

X = 36.67 km/hr





Adda 24 7

S129. Ans.(a)

Sol. Time taken by X = 8 hr. Time taken by Y = 7 hr. <u>Time Speed LCM</u> X 8 hr 7 56 (Total distance) Y 7 hr 8

∴ time taken to cross each other = $\frac{56}{15} = 3\frac{11}{15}$ hr.

= 3 hr 44 min.

 \therefore Required time to cross = 11 : 44 am

S130. Ans.(b)

Sol.

Let initial speed of the car = s kmph. And initial time taken by the car to cover the distance = t hours.

So, Total Distance = $s \times t$ km.

ATQ,

 $(s-9)(t+2) = (s+5)(t-\frac{48}{60})$ s-5t = 5(i) and, st = (s-9) (t+2) 2s-9t = 18(ii) From eq(i) & eq(ii) t=8 hours and s= 45 kmph so, required distance = 45 × 8 = 360 km.

S131. Ans.(b)

Sol.

Let upstream speed of a boat be 7x km/hr. So, downstream speed of a boat = $\frac{1100}{700} \times 7x$ = 11x km/hr. Hence, speed of boat in still water = $\frac{7x+11x}{2}$ = 9x km/hr. And, speed of stream = 11x - 9x= 2x km/hr. ATQ, 2x = 8x = 4Required time = $\frac{176}{11x} + \frac{70}{7x}$ = $\frac{16}{x} + \frac{10}{x}$ = $\frac{26}{x}$ = 6.5 hours S132. Ans.(b) Sol. Let speed of stream = r km/h A/q, $(8-r) \times 5 = (8+r) \times 3$ $\Rightarrow 40 - 5r = 24 + 3r$ $\Rightarrow r = \frac{16}{8} = 2 \text{ km/h}$

S133. Ans.(b) Sol. Let total distance = d \therefore Average speed = $\frac{d}{\frac{d}{24} + \frac{d}{48}}$ = 16 km/h

S134. Ans.(a) Sol. Let the total distance = x km $\frac{x}{12-4} + \frac{x}{12+4} = \frac{90}{60}$ $\frac{x}{8} + \frac{x}{16} = 1.5$ $3x = 1.5 \times 16$ x = 8 km

S135. Ans.(d) Sol. Let one side time taken = t hour

Time taken by car = x hour ATQ, $60x + 4(t - x) = 20 \times t$

 $\Rightarrow x = \frac{2}{7}t$ Let t = 7y = time taken on train x = 2y = time taken on car t-x = 5y = time taken on cycle. Required Ratio \rightarrow 60 × 2y : 4 × 5y : 20 × 7y





S136. Ans.(c)

Sol.

In both conical shape volume will be same. Let base radius of cone is R cm So, height of the cone = 2R cm. ATQ, $\frac{4}{3}\pi(16)^3 = 2 \times \frac{1}{3}\pi R^2 \times 2R$ $R^3 = 16^3$ R = 16 Required height = 2R = 32 cm.

S137. Ans.(d)

Sol. According to question the first place of the threeletter word will be fix & will be filled by S only.

So, rest two letter will be selected from the rest 6 letter of word STRANGE.

So, Number of possible ways = $6 \times 5 = 30$

S138. Ans.(b)

Sol. total outcomes = $6^2 = 36$ Favorable outcomes = when sum is 2, 3, 4, 8, 9, 10 (1,1) (1,2) (1,3) (2,1) (2,2) (2,6) (3,1) (3,5) (3,6) (4,4)(4,5) (4,6) (5,3) (5,4) (5,5) (6,2) (6,3) (6,4) Required probability = $\frac{18}{36} = \frac{1}{2}$

S139. Ans.(a)

Sol.

Let each of base and height of the isosceles right-angle triangle is a meter so its hypotenuse will be $a\sqrt{2}$ m. Area of isosceles right-angle triangle = 128×16

 $\frac{1}{2} \times a \times a = 2048 \text{ m}^2$

 $a^2 = 4096.$ a=64 m. so, its hypotenuse = $64\sqrt{2}$ m. Now, radius of the Sphere = $\frac{1}{2} \times 64\sqrt{2}$

$$= 8\sqrt{2} m.$$

Total surface area of the sphere = $4\pi \times 8\sqrt{2} \times 8\sqrt{2}$ $=512\pi m^2$

S140. Ans.(d)

Sol. Let number of employees in 'Adda 247' initially = n ATQ - $\frac{(5n+26)}{(n+1)} = (5+1)$ 5n + 26 = 6n + 6n = 20

S141. Ans.(d) Sol.

Total number of cases when two dices are rolled simultaneouslv=36 total cases of getting same number on both the dices=(1,1), (2,2), (3,3), (4,4), (5,5), (6,6) = 6 required probability= $1 - \frac{6}{26} = \frac{5}{6}$

S142. Ans.(d)

Sol. Volume of sphere = $\frac{4}{3}\pi R^3$ (R \rightarrow Radius) Volume of cylinder = $\pi r^2 h$ (r \rightarrow radius of cylinder, h \rightarrow height of cylinder) R = r (given) ATQ, $\frac{4}{2}\pi R^3 = 288\pi \Rightarrow R^3 = 216 \Rightarrow R = 6 \text{ cm} = r$ Radius of cylinder=r=6cm Height of cylinder=h=12cm Volume of cylinder = $\pi r^2 h$ $= 432\pi \text{ cm}^3$

S143. Ans.(c) **Sol.** Number of cubes = $\frac{45 \times 45 \times 45}{75 \times 75 \times 75} = 216$

S144. Ans.(b)

Sol. ATQ, vowels have to come together so A and I together will be treated as a single letter. And, A and I can change their respective places in 2! Ways. So, Number of ways = $(8-1)! \times 2! = 7! \times 2!$ = 10080 ways

S145. Ans.(a) Sol. As we know there exist 2 black queens and 2 kings in a set of 52 playing cards. So, Required Probability $=\frac{{}^{2}C_{1}}{{}^{52}C_{1}}+\frac{{}^{2}C_{1}}{{}^{52}C_{1}}=\frac{1}{13}$

S146. Ans.(d)

Sol. Let the radius of cylinder and hemisphere be r cm. So, height of cylinder = 2r cm. Surface area of cylinder = $2\pi rh$ $= 4\pi r^2$ Total Surface Area of Hemi-Sphere = $3\pi r^2$ Required result = $\frac{4\pi r^2 - 3\pi r^2}{3\pi r^2} \times 100$ $=33\frac{1}{2}\%$

S147. Ans.(e) Sol. Possible cases of balls will be 2 red or 2 Orange or 2 Green

New number of employees in 'Adda 247' = 20 + 1 = 21

Required probability $=\frac{{}^{4}C_{2}}{{}^{9}C_{2}}+\frac{{}^{3}C_{2}}{{}^{9}C_{2}}+\frac{{}^{2}C_{2}}{{}^{9}C_{2}}=\frac{6}{36}+\frac{3}{36}+\frac{1}{36}=\frac{5}{18}$



Adda 2417	Adda 247
BANKERS 200 Quantitative Aptitud	le Questions for LIC AAO
S148. Ans.(a)	S155. Ans.(d)
Sol. In the word BLASTING, there are two vowels (A, I)	Sol.
and six consonants (B, L, S, T, N, G).	$Required \ ratio = (100 + 80 + 110): (50 + 60 + 120 + 10)$
So, required probability $=\frac{7!\times 2!}{2!}=\frac{2}{2}=\frac{1}{2!}$	90)
	= 290: 320
\$149 Ans (c)	= 29:32
Sol radius = r cm	
Height $=$ 3r cm	S156.Ans.(c)
	Sol.
$2\pi r(r+h) = 1232$	Wrong number = 10
$2 \times \frac{22}{2} \times \frac{22}{2} \times \frac{1222}{2}$	Pattern of series –
$\Rightarrow 2 \times \frac{1}{7} \times T \times 4T = 1232$	$8 \times 0.5 = 4$
\Rightarrow r = 7cm	$4 \times 1 = 4$
Height = $h=21cm$	$4 \times 1.5 = 6$
Volume of cylinder = $\frac{22}{7} \times 7 \times 7 \times 21 = 3234 \ cm^3$	$6 \times 2 = 12$
,	$12 \times 2.5 = 30$
\$150. Ans.(e)	$30 \times 3 = 90$
Sol.	
Let us suppose number of green balls in the box = x	\$157. Ans.(c)
ATO.	Sol.
${}^{6}C_{1} = 1$	Wrong number = 11
$\overline{(6+5+x)}C_1 = \frac{1}{3}$	Pattern of series –
$\frac{6}{2} = \frac{1}{2}$	$12 + 2^2 = 16$
x+11 = 3 x+11 = 18	$16 + 3^2 = 25$
$\therefore x = 7$	$25 + 4^2 = 41$
	$41 + 5^2 = 66$
\$151.Ans.(a)	$66 + 6^2 = 102$
Sol.	$102 + 7^2 = 151$
Number of complaints received Tuesday = $100 + 80 +$	
70 + 110 = 360	S158. Ans.(d)
Number of complaints received on Wednesday= $50 +$	Sol.
60 + 120 + 90 = 320	Wrong number = 25
Required difference = $360 - 320$	Pattern of series –
= 40	$21 + 2^3 = 29$
	$29 - 3^2 = 20$
S152.Ans.(b)	$20 + 2^3 = 28$
Sol.	$28 - 3^2 = 19$
$P_{\text{advised }0} = \frac{(70+110)-(50+60)}{70} = \frac{70}{70} \times 100 = 62.62$	$19 + 2^3 = 27$
Required $\% = \frac{1}{(50+60)} = \frac{1}{110} \times 100 = 63.63$	$27 - 3^2 = 18$
\$153 Ans (c)	\$159.Ans.(a)
Sal	Sol.
$R_{equired ratio} = (80 \pm 60) \cdot (50 \pm 90)$	Wrong number = 104
= 1.1	Pattern of series –
- 1.1	20 + 8 = 28
\$154 Ans (c)	28 + 12 = 40
Sol	40 + 16 = 56
D (10((70+120) (00)	56 + 20 = 76
<i>Required</i> $\% = \frac{1}{(100+80+70+110)} \times 100$	76 + 24 = 100
$=\frac{190}{200} \times 100 = 52.77 \approx 53 \%$	100 + 28 = 128
360	l

l

Adda 247
BANKERS



S160.Ans.(e) Sol. Wrong number = 20 Pattern of series - $1 \times 1 + 1 = 2$ $2 \times 2 + 2 = 6$ $6 \times 3 + 3 = 21$ $21 \times 4 + 4 = 88$ $88 \times 5 + 5 = 445$ $445 \times 6 + 6 = 2676$ S161.Ans.(a) Sol. $63 + 18 = ?^2$? = 9S162.Ans.(e) Sol. $43 - 16 = \sqrt{?} - 12$? = 1521S163.Ans.(c) Sol. 75 - 63 + 25 = ?? = 37S164.Ans.(e) Sol. 3167 - 2881 - 121 = ? - 41? = 206 S165.Ans.(d) Sol. $\frac{62.5}{100} \times ? -25 = 225$ $? = \frac{250 \times 100}{62}$? = 400 S166. Ans.(b) Sol. $\frac{24}{100} \times 450 + ?^2 = 256 - 4$ $?^2 = 252 - 108$? = 12 S167. Ans.(d) Sol. $? \times \left(\frac{44}{100} \times 750 + 110\right) = \frac{88}{100} \times 2500$

S168. Ans.(a) Sol. $4^{?} + \frac{80}{100} \times 980 = 1040$ $4^{?}$ + 784 = 1040 $4^{?} = 256$? = 4 S169. Ans.(e) Sol. $\frac{1512}{?} + \frac{50}{100} \times 488 = \frac{70}{100} \times 400$ $\frac{1512}{?}$ = 280 - 244 ? = 42 **S170.**Ans(d) Sol. $\frac{?}{100} \times 640 + \frac{40}{100} \times 280 = 400$ $\frac{?}{100} \times 640 = 400 - 112$ $? = \frac{288 \times 100}{640}$? = 45S171. Ans.(d) Sol. Let total production in any of these years be 100x \therefore Required percent = $\frac{(80x-70x)}{80x} \times 100$ = 12.5 %S172. Ans.(e) Sol. Required difference = 60% of 1,50,000 – (20+30) % of 1,50,000 = 15000S173. Ans.(b) Sol. Let total production in any of these years be 100xRequired ratio = $\frac{\frac{30+60+30}{3}\% \text{ of } 100x}{(30+30)\% \text{ of } 100x} = 2:3$ S174. Ans.(d) Sol. Let total production in any of these years be 100x ATQ, 10% of 100x = 12000 x = 1200Required average = $\frac{10\% \text{ of } 1,20,000 + 30\% \text{ of } 1,20,000}{2}$

2

? = 5

 $? \times 440 = 2200$

= 24000







BANKERS 200 Quantitative Aptitu	de Questions for LIC AAO
S175. Ans.(b)	S184. Ans.(d)
Sol.	Sol.
Let total production in any of these years be 100x	Sum of selling price of all 3 type of refrigerators in year
$\therefore \frac{20}{20} \times 100 x = 18000$	2016 = (16000 + 22000 + 26000) = 64000
	Sum of selling price of all 3 type of refrigerators in year
x=900	2017 = (14000 + 25000 + 32000) = 71000
Total production in $2019 = \frac{200}{100} \times 100 \times 900$	Sum of selling price of all 3 type of refrigerators in year
= 1,08,000.	2018 = (15000+19000+29000) = 63000
	Sum of sening price of all 3 type of refrigerators in year $2010 - (17000, 22000, 28000) - 67000$
S176. Ans.(b)	2019 - (17000 + 22000 + 28000) - 67000
Sol.	50, III Teal 2010 It is lowest.
-26, +52, -78, +104, -130	\$185. Ans.(b)
50, 640 - 130 = 510	Sol.
S177 Ans(a)	Required $\% = \frac{15000}{2} \times 100 = 8823\% \approx 88\%$ (approx)
Sol Pattern is	$\frac{17000}{17000} \times 100 = 00.2370 \times 0070 \text{ (approx.)}$
+25 +50 +100 +200 +400	S196 Ang (d)
So. 402+400=802	Sol
50, 102 · 100 · 002	$\int x^2 - 6x - 8x + 48 = 0$
S178. Ans.(a)	x(x-6) - 8(x-6) = 0
Sol.	(x - 8)(x - 6) = 0
Pattern is —	x = 6, 8
+(5 ² -1), +(7 ² +1), +(9 ² -1), +(11 ² +1), +(13 ² -1)	II. $y^2 - 9y - 8y + 72 = 0$
So,	y(y-9) - 8(y-9) = 0
293+(13 ² -1)=461	(y-9)(y-8) = 0
	y = 9, 8
S179. Ans.(d)	$x \leq y$
Sol.	
Pattern is —	S187. Ans.(b)
$\pm 5, \pm 0, \pm 5, \pm 0, \pm 5$	Sol.
30, 30.4 + 3 - 10.00	1. $x^2 + 7x + 6x + 42 = 0$
S180. Ans.(b)	x(x + 7) + 0(x + 7) = 0
Sol.	x = -6 - 7
×2.5, ×1.5, ×2.5, ×1.5, ×2.5	$II. v^2 + 8v + 7v + 56 = 0$
So, 337.5 × 2.5 = 843.75	v(v+8) + 7(v+8) = 0
	(y+8)(y+7) = 0
S181. Ans.(c)	y = -8, -7
Sol.	x≥y
Marked price of C in $2018 = \frac{19000}{100-24} \times 100 = 25000.$	
Cost price of C in $2018 = \frac{25000}{2} \times 3 = 15000$	S188. Ans.(c)
Required Difference = $6000 - 4000 = 2000$	
1000 - 2000	$1 \cdot x^{2} + 6x + 2x + 12 = 0$
S182. Ans.(d)	x(x + b) + 2(x + b) = 0 (x + 2)(x + b) = 0
Sol.	(x + 2) (x + 0) = 0 y = -2 = -6
Required average = $\frac{16000+25000+15000+22000}{1}$ = 19500 Rs	x2, -0 II $6y^2 + 9y + 4y + 6 = 0$
4	3v(2v+3) + 2(2v+3) = 0
\$183 Ans (c)	(2v+3)(3v+2) = 0
Sol.	$y = -\frac{3}{2} - \frac{2}{2}$
Required ratio $=\frac{19000}{1000} = 10.25$	y = 2' 3
$125000 - \frac{19.25}{25000}$	X <y< td=""></y<>

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S189. Ans.(a)

Sol. I. $2x^2 + 6x + 3x + 9 = 0$ 2x(x + 3) + 3(x + 3) = 0 (x + 3) (2x + 3) = 0 $x = -3, -\frac{3}{2}$ II. $y^2 + 16y + 12y + 192 = 0$ y(y + 16) + 12(y + 16) = 0 (y + 16) (y + 12) = 0 y = -16, -12x > y

S190. Ans.(a)

Sol. I. $x^2 - 9x + 20 = 0$ $x^2 - 5x - 4x + 20 = 0$ x (x - 5) -4 (x - 5) = 0 (x - 4) (x - 5) = 0 x = 4, 5II. $y^2 + 3y + 3y + 9 = 0$ y(y + 3) + 3(y + 3) = 0 (y + 3)(y + 3) = 0 y = -3, -3x > y

S191. Ans.(b)

Sol. 90 55 75 142.5 325 862.5 ×0.5+10 ×1+20 ×1.5+30 ×2+40 ×2.5+50

S192. Ans.(d)

Sol.		-	4		
5	12	39	160	805	4836
	ᡗ∟	Î [Î [1	1
×2+2	×3	+3 ×	4+4	×5+5	×6+6

S193. Ans.(e)



S194. Ans.(a) Sol.





S195. Ans.(d) Sol. Pattern is, $21 \quad 28 \quad 42 \quad 64 \quad 95 \quad ?$ $+7 \quad +14 \quad +22 \quad +31 \quad +41$ $+7 \quad +8 \quad +9 \quad +10$

S196. Ans.(e) Sol. Price of a one kg sugar = $84 \times \frac{11}{21} = Rs \ 44$ Price of one kg of salt = $840 \times \frac{10}{21} = Rs40$ Required difference = $(20 \times 44 - 15 \times 40)$ = 880 - 600= Rs. 280

S197. Ans.(a) Sol. Price of one kg of tea $=\frac{900}{18} = Rs50$ Price of one kg of rice $=\frac{1500}{30} = Rs50$ Required $\% = \frac{50-50}{50} \times 100 = 0\%$

Sol. Required ratio $=\frac{63 \times 12}{42 \times 25} = \frac{18}{25}$

S199. Ans.(b) Required $\% = \frac{20+15}{30+12} \times 100 = 83\frac{1}{3}\%$

Sol. Required sum = $(56 \times 15) + (32 \times 30) + (40 \times 25)$ = 2800 Rs.

