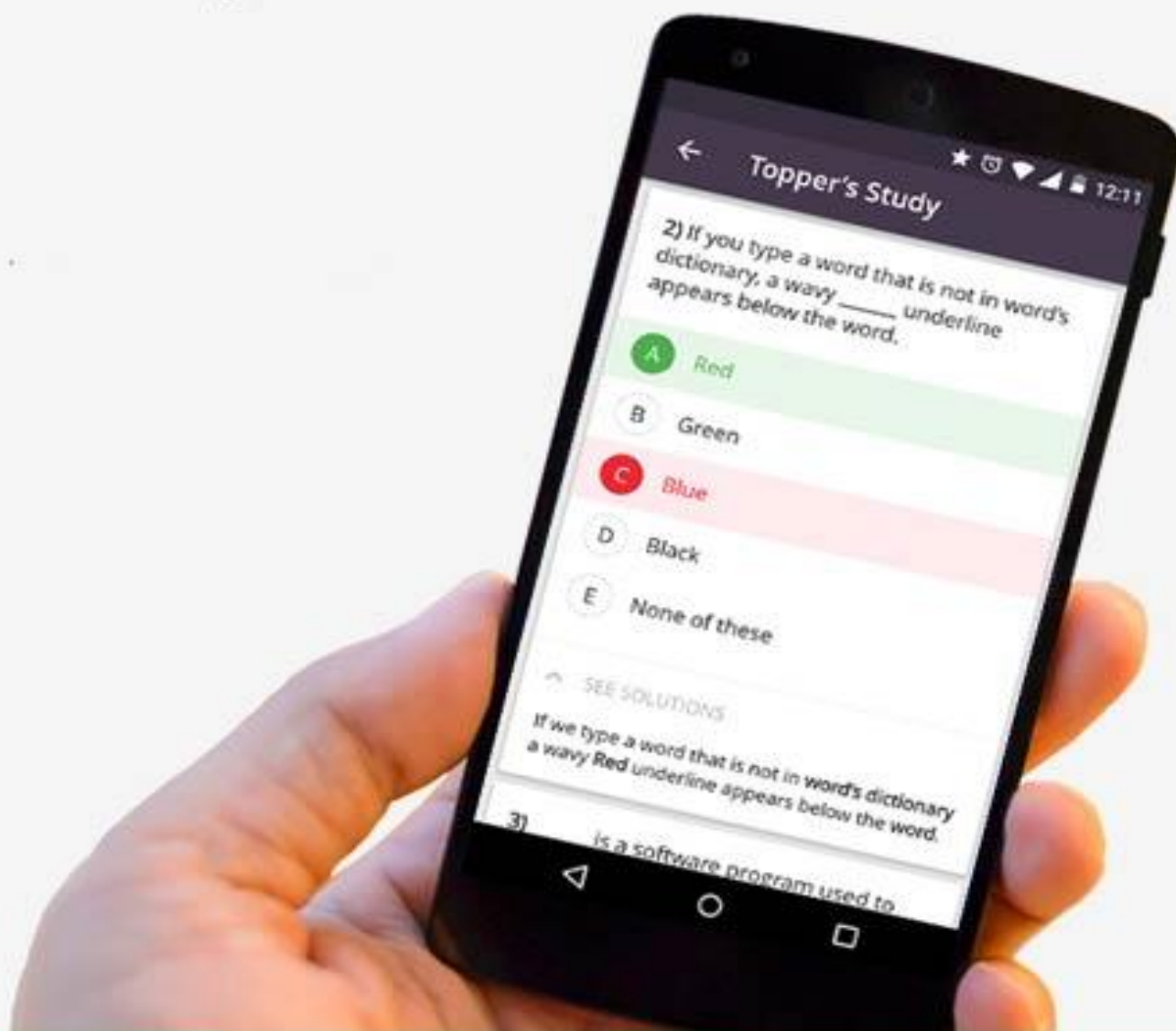




# Mock Test Answer Key

for LIC AAO 2016 Exam  
based on 5th & 6th March



# LIC AAO Mock Test - 3

## Solutions

### ENGLISH LANGAUGE

- |         |  |
|---------|--|
| 1. (a)  | 24. (d)                                  |
| 2. (b)  | 25. (a)                                  |
| 3. (d)  | 26. (c)                                  |
| 4. (d)  | Replace 'concerned' with 'commensurate'. |
| 5. (d)  | 27. (c)                                  |
| 6. (c)  | Remove 'along'.                          |
| 7. (d)  | 28. (c)                                  |
| 8. (a)  | Replace 'too much' with 'much too'.      |
| 9. (e)  | 29. (b)                                  |
| 10. (c) | Replace 'through' with 'from'.           |
| 11. (b) | 30. (c)                                  |
| 12. (e) | Replace 'was' with 'were'.               |
| 13. (a) | 31. (e)                                  |
| 14. (c) | 32. (a)                                  |
| 15. (b) | 33. (b)                                  |
| 16. (d) | 34. (c)                                  |
| 17. (a) | 35. (b)                                  |
| 18. (e) | 36. (d)                                  |
| 19. (b) | 37. (e)                                  |
| 20. (c) | 38. (b)                                  |
| 21. (d) | 39. (e)                                  |
| 22. (d) | 40. (c)                                  |
| 23. (e) |  |

### Quantitative Aptitude

#### Solution (41-45)

41. (a)  
Average number of bikes sold by showroom R,  
=  $156+179+211+259+230/5$   
=  $1035/5=207$
42. (b)  
Required Percentage  
=  $(231-180/180) \times 100 = 28.33\%$
43. (c)  
Sale of bikes from showroom T in July  
=  $250 \times 108/100 \times 120/100 = 324$  thousand
44. (c)  
Total number of bikes sold by all the showrooms in April  
=  $205+198+259+165+181 = 1008$   
Total number of bikes sold by all the showrooms in June  
=  $1008 \times 7/9 = 784$
45. (e)  
Bikes sold from showroom P in January = 154  
Bikes sold from showroom S in May = 178  
Required Percentage

$$= (178-154/154) \times 100 = 15.6\%$$

#### Solution (46-50)

46. (b)  
 $x.5 \times 1 \times 2 \times 4 \times 8$
47. (c)  
 $x1+1, x2+2, x3+1...$
48. (a)  
 $+17 -34 +51 -68 +85$
49. (d)  
 $-25 +49 -81 +121 -169$
50. (c)  
 $x2+2, x3+3, x4+4...$

#### Solution (51-55)

51. (b)  
The number of people who travelled by Train Q on Sunday  
=  $200 \times 120/100 = 240$   
Ratio =  $240:320 = 3:4$
52. (d)

- Difference =  $(350 + 270) - (200 + 170) = 620 - 370 = 250$
53. (c)  
Average =  $240 + 210 + 140 + 230 / 4 = 820 / 4 = 205$
54. (b)  
The number of people who travelled by Train P on Monday = 350  
The number of people who travelled by Train P on Thursday = 210  
% decrease =  $350 - 210 / 350 \times 100 = 40\%$
55. (b)  
The number of people travelled by both Trains together on Tuesday =  $310 + 270 = 580$   
The number of people travelled by both Trains together on Friday =  $140 + 120 = 260$   
Reqd % =  $580 - 260 / 260 \times 100 = 320 / 260 \times 100 = 123\%$

**Solution (56-60)**

56. (a)  
I.  $2x^2 - 6x - 5x + 15 = 0$   
or,  $2x(x - 3) - 5(x - 3) = 0$   
or,  $(2x - 5)(x - 3) = 0$   
 $x = 3, 5/2$   
II.  $2y^2 + 8y + 5y + 20 = 0$   
or,  $2y(y + 4) + 5(y + 4) = 0$   
or,  $(y + 4)(2y + 5) = 0$   
 $y = -4, -5/2$
57. (d)  
I.  $x^2 + 5x + 6x + 30 = 0$   
or,  $x(x + 5) + 6(x + 5) = 0$   
or,  $(x + 5)(x + 6) = 0$   
 $x = -5, -6$   
II.  $y^2 + 2y + 5y + 10 = 0$   
or,  $y(y + 2) + 5(y + 2) = 0$   
or,  $(y + 2)(y + 5) = 0$   
 $y = -2, -5$
58. (c)  
I.  $x^2 + 3x - 28 = 0$   
or,  $x^2 + 7x - 4x - 28 = 0$   
or,  $x(x + 7) - 4(x + 7) = 0$   
or,  $(x - 4)(x + 7) = 0$   
or,  $x = 4, -7$   
II.  $y^2 + 15y + 56 = 0$   
or,  $y^2 + 7y + 8y + 56 = 0$   
or,  $y(y + 7) + 8(y + 7) = 0$   
or,  $(y + 7)(y + 8) = 0$   
 $y = -7, -8$
59. (b)  
I.  $6x^2 - 29x + 35 = 0$   
or,  $6x^2 - 15x - 14x + 35 = 0$   
or,  $3x(2x - 5) - 7(2x - 5) = 0$   
or,  $(3x - 7)(2x - 5) = 0$   
 $X = 7/3, 5/2$   
II.  $2y^2 - 8y - 11y + 44 = 0$   
or,  $2y(y - 4) - 11(y - 4) = 0$   
or,  $(y - 4)(2y - 11) = 0$   
 $y = 4, 11/2$
60. (e)  
I.  $3x^2 - 4x - 32 = 0$   
or  $3x^2 - 12x + 8x - 32 = 0$   
or  $3x(x - 4) + 8(x - 4) = 0$   
or  $(3x + 8)(x - 4) = 0$   
 $x = 4, -8/3$   
II.  $y^2 - 7y + y - 7 = 0$   
or  $y(y - 7) + 1(y - 7) = 0$   
or  $(y + 1)(y - 7) = 0$   
 $y = -1, 7$
61. (a)  
Total number of ways to drawing balls  $(9 + 7 = 16)$   
 ${}^{16}C_2 = 16! / 2! = 120$   
Number of ways of drawing a red ball out =  ${}^7C_1 = 7$   
Number of ways of drawing a black ball out =  ${}^9C_1 = 9$   
Number of ways of drawing a black and a red ball out =  $7 \times 9 = 63$   
Probability =  ${}^7C_1 \times {}^9C_1 / {}^{16}C_2 = 63 / 120 = 21/40$
62. (b)  
By eliminate the options you can get the answer.  
Suppose CP of article B is = 200  
Then CP of article A should be = 400  
Article A sold =  $400 \times 10 / 100 = 40 = 400 - 40 = 360$   
Article B sold =  $200 \times 20 / 100 = 40 = 200 + 40 = 240$   
Overall =  $240 + 360 = 600$   
Both article CP =  $200 + 400 = 600$   
So both are equal that means no profit and no loss.
63. (c)  
By eliminate the options you can get the answer.  
Suppose we consider 37 as the smallest number.  
Then series would be = 37, 39, 41, 43, 45  
So  $(44)^2 - (38)^2 = 492$   
So answer will be 37.
64. (d)  
Ratio of both capital  
=  $70000 \times 12 : 75000 \times 6$   
=  $840000 : 450000 = 28:15$   
Rahul's share =  $15/43 \times 86000 = 30,000$ rs
65. (b)  
Let the son's age be x years.  
Then, the age of his father =  $(50 - x)$  years  
10 years ago,  $9(x - 10) = 50 - x - 10$   
or,  $9x - 90 = 40 - x$   
or,  $10x = 130$   
 $X = 13$  years  
Hence father's age =  $50 - 13 = 37$  years
66. (b)  
Total quantity of mixture is 64 litres.  
Then, according to question,  
Quantity of water in the mixture =  $32 \times 2/16 = 4$  litres  
Quantity of milk in the mixture =  $32 \times 14/16 = 28$  litres  
Remaining mixtures =  $64 - 32 = 32$  litres

Now, 2 litres of water is added .  
 Total water= 4 +2=6 litres  
 New mixture= 32+2= 34 litres  
 Req percentage of water =  $(\frac{6}{34} \times 100)$   
 = 17( $\frac{11}{17}$ )

67. (c)  
 Upstream      Downstream      Time  
 10                      16                      6  
 16                      10                      7  
 Upstream of speed of the boat  
 =  $10 \times 10 - 16 \times 16 / 10 \times 6 - 16 \times 7$   
 =  $-156 / -52 = 3$  kmph  
 Downstream of speed of the boat  
 =  $10 \times 10 - 16 \times 16 / 10 \times 7 - 16 \times 6$   
 =  $-156 / -26 = 6$  kmph  
 Speed of the current=  $(6-3/2) = 1.5$  kmph
68. (e)

Remaining work=  $1 - 1/8 = 7/8$  part  
 1 work is completed by P and Q in  
 $1 / (\frac{1}{6} + \frac{1}{12}) = 4$  days  
 7/8 part is completed by P and Q in  $4 \times 7/8 = 3 \frac{1}{2}$  days

69. (a)  
 Let the sum be x and the rate of interest r% pa.  
 Then,  $X \times 5 \times (r+10) / 100 - X \times 5 \times r / 100 = 145$   
 Or,  $14500 / 50 = 290$ rs
70. (b)  
 Side of square=  $\sqrt{576} = 24$   
 Length of rectangle =  $24 + 4 = 28$   
 Breadth of rectangle =  $24 - 4 = 20$   
 Area of rectangle=  $28 \times 20 = 560$

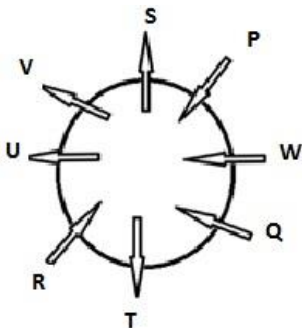
**Reasoning Ability**

**Solutions (71-75)**

Name	Presentation	Color
Ram	English	Green
Arpit	Physics	Blue
Manish	Geography	Black
Mahesh	Chemistry	Yellow
Lucky	History	Red
Raju	Civics	White
Vijay	Biology	Brown

71. (b)  
 72. (e)  
 73. (c)  
 74. (d)  
 75. (d)

**Solution (76-80)**



76. (b)  
 77. (a)  
 78. (c)  
 79. (c)  
 80. (d)

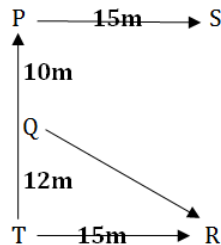
**Solution (81-85)**

M J L K N

ROW 2 (South)	M	J	L	K	N
ROW 1 (North)	D	A	C	E	B

81. (a)  
 82. (c)  
 83. (a)  
 84. (a)  
 85. (e)

**Solution (86-87)**



86. (b)  
 87. (a)

**Solution (88-90)**

Floor	Person
7	A
6	E
5	B
4	G
3	C
2	D
1	F

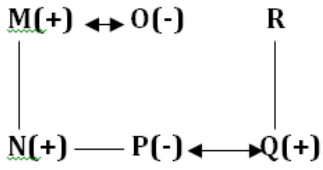
- 88. (a)
- 89. (c)
- 90. (b)

**Solution (91-93)**

- 91. (c)
- 92. (c)
- 93. (c)

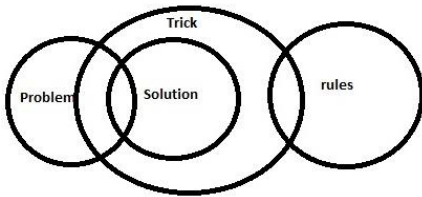
**Solution (94-95)**

- 94. (e)
- 95. (b)

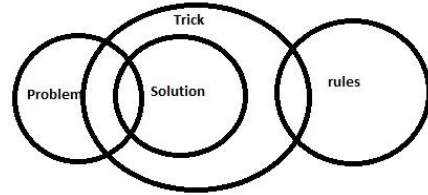


**Solution (96-100)**

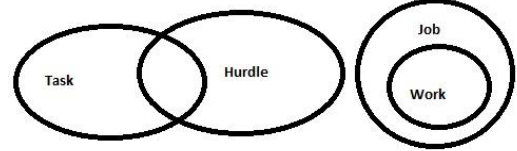
- 96. (a)



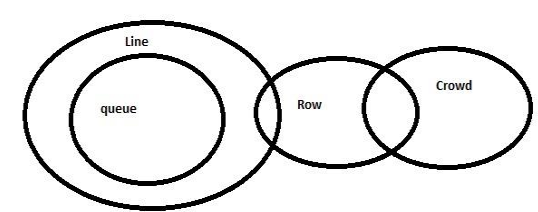
- 97. (a)



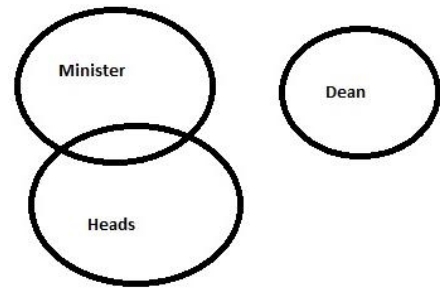
- 98. (e)



- 99. (b)



- 100. (b)



## Computer Knowledge

- 101. b
- 102. a
- 103. a
- 104. b
- 105. c
- 106. c
- 107. b
- 108. c
- 109. e
- 110. b
- 111. c
- 112. d
- 113. a
- 114. c
- 115. c
- 116. b
- 117. b
- 118. c
- 119. c
- 120. d
- 121. e
- 122. c
- 123. c
- 124. c
- 125. c
- 126. b
- 127. d
- 128. b
- 129. a
- 130. b

## General Knowledge & Current Affairs

- 131. c
- 132. c
- 133. d
- 134. d
- 135. d
- 136. a
- 137. d
- 138. b
- 139. a
- 140. b
- 141. c
- 142. b
- 143. b
- 144. a
- 145. c
- 146. a
- 147. c
- 148. b
- 149. d
- 150. b
- 151. c
- 152. c
- 153. d
- 154. a
- 155. c
- 156. c
- 157. b
- 158. b
- 159. d
- 160. c

A+

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