

BOOKS



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Reasoning Ability for LIC AAO Mains

Directions (1-5): Study the following information and answer the given questions:

Eight family members A, B, C, D, E, F, G, and H live on 8 different floors of a building, lowermost floor is numbered as 1 and topmost floor is numbered as 8. There are only 3 female members and 3 generation in a family. There is only three persons live between B's son and B's wife. F is daughter-in-law of A and has only two children. There is only three persons live between A's brother-in-law and F. H doesn't live above A. D, who lives on odd numbered floor, lives below H but not lives above F. Aunt of E lives above E's floor. G lives on odd numbered floor but not on 5th floor. A is a wife of H's brother. C doesn't live just below G's uncle. B, who is not from 2nd generation, has one daughter. F lives just below B's son. H and E live on even numbered floor. D is not a female member. C doesn't live just above A and just below A's Daughter in law.

Q1. Who among the following is a son of B?

- (a) D
- (b) E
- (c) G
- (d) C
- (e) None of these

Q2. Who amongst the following lives on floor number 3?

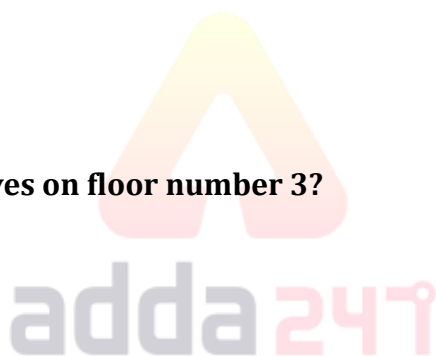
- (a) B's son
- (b) D
- (c) None of these
- (d) B's wife
- (e) E

Q3. C lives on which of the following floor?

- (a) 4th floor
- (b) 6th floor
- (c) 5th floor
- (d) None of these
- (e) 8th floor

Q4. Who among the following is/are a son of G?

- (a) E
- (b) C
- (c) None of these
- (d) Both (a) and (e)
- (e) D



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Q5. How many people live between the floors on which D and B live?

- (a) None
- (b) Two
- (c) One
- (d) More than three
- (e) Three

Directions (6-10): In the following questions, the symbols @, #, %, \$ and © are used with the following meaning as illustrated below-

'P#Q' means 'P is neither greater than nor equal to Q'

'P©Q' means 'P is neither equal to nor smaller than Q'

'P%Q' means 'P is neither smaller than nor greater than Q'

'P\$Q' means 'P is not smaller than Q'

'P@Q' means 'P is not greater than Q'

Now in each of the following questions assuming the given statement to be true, find which of the three conclusions I, II and III given below them is/are definitely true and give your answer accordingly.

Q6. Statements: M © S @ Z % R \$ N

Conclusions:

I. M © Z

II. R \$ M

III. S © N

- (a) None is true
- (b) Only I is true
- (c) Only III is true
- (d) Either I or II is true
- (e) All are true



Q7. Statements: A \$ B, B % M, K © M

Conclusions:

I. K © B

II. M @ A

III. A © K

- (a) Only I and III are true
- (b) Only II and III are true
- (c) Only I and II are true
- (d) All are true
- (e) None of these

Q8. Statements: R \$ M, M © Z, Z @ A, Y © Z

Conclusions:

I. R © Y

II. Z # R

III. Y © R

- (a) None is true
- (b) Only II is true
- (c) Only I and II are true
- (d) Only II and III are true
- (e) All are true

Q9. Statements: M © S @ Z % R \$ N

Conclusions:

I. N # Z

II. R # M

III. S % N

- (a) None follows
- (b) Only I is true
- (c) Only III is true
- (d) Either I or II is true
- (e) All are true

Q10. Statements: R \$ M, M © Z, Z @ A, Y © Z

Conclusions:

I. R © Z

II. Z # A

III. R % A

- (a) Only I is true
- (b) Only II is true
- (c) Only I and II are true
- (d) Only II and III are true
- (e) All are true

Directions (11-15): Study the information carefully and answer the questions given below.

Nine persons are living in a nine-floored building such that ground floor is numbered one then the floor just above it is numbered two and so on till the topmost floored numbered nine. They shifted in this building in different months i.e. May, June, July and August. Not more than three persons shifted in the same month. No two persons who shifted in same month lives on consecutive floors.

D did not shift in the month of May. The three persons who shifted in May are E, the one in 4th and 1st. H shifted in June on 6th floor with only one more person in the same month, who lives on an even numbered floor. Persons who shifted in August do not live on top floor. Three persons live between I and C. Not more than 1 person lives between C and E. G lives above F but not immediate above, none of them shifted in June or May. Not more than two people live above C, who shifted in August. As many persons live between C and B as between B and A. E lives just above the one shifted in July. Persons shifted in August are less than that in June. D lives on an even numbered floor but not 8th.

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Q11. How many persons shifted in July?

- (a) one
- (b) two
- (c) three
- (d) four
- (e) no one

Q12. Four of the following five belongs to a group find the one that does not belong to that group?

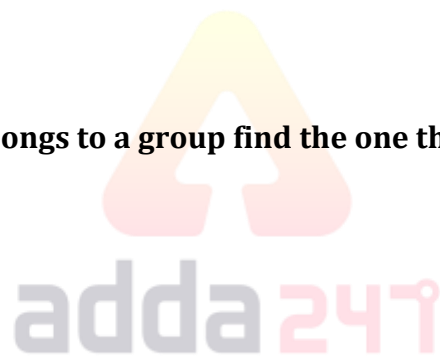
- (a) C
- (b) I
- (c) B
- (d) A
- (e) E

Q13. Who among the following lives on 1st floor?

- (a) C
- (b) I
- (c) B
- (d) A
- (e) E

Q14. Four of the following five belongs to a group find the one that does not belong to that group?

- (a) C
- (b) D
- (c) B
- (d) A
- (e) E



Q15. In which months did persons living just above and below floor 7 shifted respectively?

- (a) July, August
- (b) June, June
- (c) July, June
- (d) May, July
- (e) none of these

Directions (16-20): Study the following information to answer these questions.

Seven Professors A, B, C, D, E, F and G are engaged in evaluation of answer papers in three different subjects English, Mathematics and History. At least two person evaluates the papers in each subject. Each of the evaluators stay in different buildings P, Q, R, S, T, V and W not necessarily in the same order.

A evaluates English papers only with E and stay in building R. D stays in building W and does not evaluate Math papers. The one who stay in building V evaluates History papers. B and C do not evaluate paper in the same subject. Those who evaluate English papers do not stay in building Q. F stays in building P but does not evaluate History papers. G evaluates same paper as F. C stays in building T.

Q16. Who stays in building V?

- (a) E
- (b) F
- (c) G
- (d) B
- (e) None of these

Q17. Which of the following combinations of subjects, person and building is definitely correct?

- (a) Math – F - Q
- (b) Math – G - Q
- (c) History – D - T
- (d) History – E - S
- (e) None of these

Q18. Which of the following groups of persons evaluate the Mathematics paper?

- (a) CF
- (b) EFG
- (c) CFG
- (d) FG
- (e) None of these

Q19. Papers in which subject are evaluated by D?

- (a) History
- (b) Math
- (c) English
- (d) English or mathematics
- (e) History or mathematics

Q20. E stays in which building?

- (a) P
- (b) Q
- (c) T
- (d) Cannot determined
- (e) None of these

Directions (21-25): Study the following information carefully and answer the given questions.

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: set near 31 11 went 51 21 ago 71 toy 41 pink 61 colour

Step I: went set near 31 11 51 21 ago toy 41 pink 61 colour 61

Step II: went toy set near 31 11 51 21 ago 41 pink colour 61 71

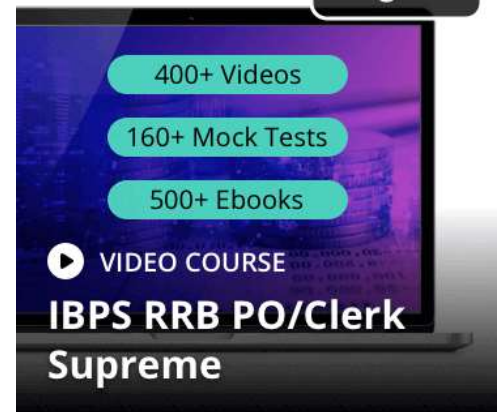
Step III: went toy set pink near 31 11 21 ago 41 colour 61 71 41

Step IV: went toy set pink near colour 31 11 21 ago 61 71 41 51

Step V : went toy set pink near colour ago 11 21 61 71 41 51 21

Step VI: went toy set pink near colour 11 61 71 41 51 21 31

English



Step VII: went toy set pink near colour ago 61 71 41 51 21 31 1

Step VII is the last step of the above arrangement.

As per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.

Input: one 131 and 161 two 111 171 make 141 so 151 thus 121 near

Q21. Which step number would be the following output?

two thus so one near make and 111 121 161 171 141 151 121

- (a) Step IV
- (b) Step V
- (c) Step VI
- (d) Step VII
- (e) There will be no such step

Q22. Which of the following would be fifth to the left of second to the right position from the right end in Step IV for the above input?

- (a) and
- (b) 111
- (c) 121
- (d) make
- (e) None of these

Q23. How many elements (words or numbers) are there between 'one' and '131' as they appear in the last step of the output?

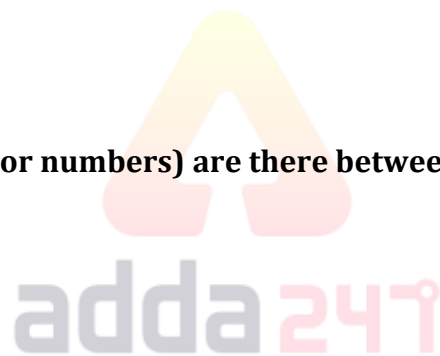
- (a) Six
- (b) Eight
- (c) Four
- (d) Five
- (e) Seven

Q24. Which of the following represents the position of 'make' in the fourth step?

- (a) Ninth from the left
- (b) Sixth from the left
- (c) Fifth from the right
- (d) Sixth from the right
- (e) Both (a) and (d)

Q25. In the last step of the rearrangement, '151' is related to 'one' and '141' is related to 'near' in a certain way. Which of the following would '171' be related to, following the same pattern?

- (a) and
- (b) thus
- (c) make
- (d) so
- (e) None of these



Directions (26-30): Read the following information carefully and answer the questions given below:

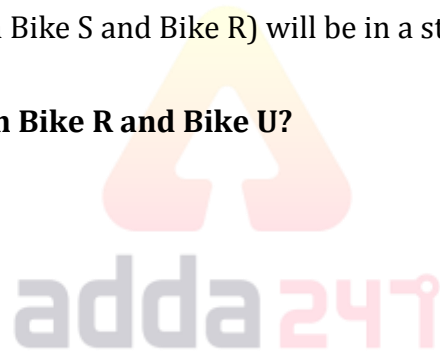
There are six bikes – P, Q, R, S, T, U – parked in a row facing north direction, but not necessarily in the same order. The distances between two adjacent bikes are successive multiples of five (i.e. if the distance between the 1st and the 2nd bike is 5 m, 1st and the 3rd bike is 10 m and between 1st and 4th bike is 15 m and so on.)

Information regarding all the bikes is:

- I. Bike R is to the immediate right of P and the distance between them is 25m.
- II. Bike T is to the left of Bike U but not immediate left and the total distance between them is 75m.
- III. The person who has Bike Q takes his bike as he wants to go to his office so he moves 32 m in south direction from there he turns to his right and moves 12 m then he turns 90° in clockwise direction and moves 16m and after walking 8 m in east direction, he finally reached to his office.
- IV. The total distance between bike T and P is a multiple of 11.
- V. There is only one bike is parked to the right of Bike Q.
- VI. If Bike S starts moving in north direction and after walking 18 m it turns to the right and covers 45m before turning to right. After that it moves 2m in the same direction. Now Bike S, Bike R and another Bike V (which is exactly between Bike S and Bike R) will be in a straight line manner.

Q26. What is the distance between Bike R and Bike U?

- (a) 120 m
- (b) 105 m
- (c) 140 m
- (d) 85 m
- (e) 95 m



Q27. How many Bikes are there between Bike P and Bike Q?

- (a) Two
- (b) None
- (c) More than three
- (d) One
- (e) Three

Q28. How far is Bike V from Bike R?

- (a) 25 m
- (b) 8 m
- (c) They don't align in the same straight line
- (d) 32 m
- (e) 27 m

Q29. What is the position of the office of a person with respect to the initial position of Bike Q?

- (a) $5\sqrt{34}$ m towards north-west
- (b) 50 m towards north-east
- (c) $4\sqrt{17}$ m towards south-west
- (d) $5\sqrt{34}$ m towards south-east
- (e) None of these

Q30. If Bike S starts moving in north direction from its initial position and after walking 5 m it turns to the right and covers 45m and then turns to left and moves 5m. Now how far is Bike S with respect to Bike T?

- (a) $8\sqrt{3}$ m towards north-west
- (b) 30 m towards south-east
- (c) $10\sqrt{7}$ m towards north-east
- (d) $10\sqrt{10}$ m towards north-west
- (e) None of these



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