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Held on (28-11-2014)

Reasoning

ASSOCIATE BANKS OF SBI

Probationary Officer (PO) Exam 2014

Solved Paper

Held on 28-11-2014

Based on Memory

PART A : REASONING

Directions (Q. Nos. 1-6) : In these questions, two/three statements followed by two conclusions numbered I and II have been given. You have to take the given statement to be true if they seem to be at variance from the commonly known facts and then decide which of the given conclusions logically follows the even statements disregarding commonly known facts.

1. **Statements** All bugs worms.
Some worms are moths.
No moth is a fly.
- Conclusions** I. No fly is a worm.
II. All moths being bugs is a possibility.
- (1) Either conclusion I or II is true.
(2) Both conclusion I and II are true.
(3) Neither conclusion I nor conclusion II is true.
(4) Only conclusion II is true.
(5) Only conclusion I is true.
2. **Statements** Some stars planets.
No planet is a Moon.
- Conclusions** I. No star is a Moon.
II. Some stars are Moons.
- (1) Either conclusion I or II is true.
(2) Both conclusion I or II are true.
(3) Neither conclusion I nor conclusion II is true.
(4) Only conclusion II is true.
(5) Only conclusion I is true.
3. **Statements** No magic is a track.
All charms are tricks.
All hoaxes are charms.
- Conclusions** I. No magic a hoax.
II. No charm is a magic.
- (1) Either conclusion I or II is true.
(2) Both conclusion I and II are true.
(3) Neither conclusion I nor conclusion II is true.
(4) Only conclusion II is true.
(5) Only conclusion I is true.

4. **Statements** All bus aer worms.
Some worms are moths.
No moth is a fly.
- Conclusions** I. All worms are bugs.
II. No bug is a fly.
- (1) Either conclusion I or II is true.
(2) Both conclusion I and II are true.
(3) Neither conclusion I nor conclusion II is true.
(4) Only conclusion II is true.
(5) Only conclusion I is true.
5. **Statements** All watches are clocks.
Some clocks are towers.
All towers are poles.
- Conclusions** I. At least some poles are clocks.
II. All towers being watches is a possibility.
- (1) Either conclusion I or II is true.
(2) Both conclusion I and II are true.
(3) Neither conclusion I nor conclusion II is true.
(4) Only conclusion II is true.
(5) Only conclusion I is true.
6. **Statements** No magic is a trick.
All charms are tricks.
All hoaxes are charms.
- Conclusions** I. All hoaxes are tricks.
II. All tricks are charms.
- (1) Either conclusion I or II is true.
(2) Both conclusion I and II are true.
(3) Neither conclusion I nor conclusion II is true.
(4) Only conclusion II is true.
(5) Only conclusion I is true.

Directions (Q. Nos. 7-12) : Study the information carefully and answer the questions.

A, B, C, D, E, F, G and H are sitting around a circular area of equal distances between each other, but not necessarily in the same order. Some of the people ar facing the centre while some face outside (i.e., in the direction opposite to the centre).

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D sits second to the left of B. B faces outside. A and F are immediate neighbours of D. H sits second to the right of A. C sits third to the left of H. E sits to the immediate right of G. D sits third to the left of E. D faces the same direction as H. F sits to the immediate right of C. F and G take same directions. (Note : Facing the same direction means if one faces the centre then the other also faces the centre and vice-versa. Facing opposite direction means if one person faces centre then the other faces outside and vice-versa)

7. Which of the following is true regarding F as per the given sitting arrangement?
- (1) Only one person sits between F and B
 - (2) Only three people sit between F and H
 - (3) A sits second to the left of F
 - (4) C sits to the immediate right of F
 - (5) F faces the centre
8. How many people in the given arrangement face outside?
- (1) Four
 - (2) Two
 - (3) One
 - (4) Three
 - (5) Five
9. What is C's position with respect to A?
- (1) Fourth to the right
 - (2) Third to the left
 - (3) Second to the left
 - (4) Fifth to the left
 - (5) None of these
10. Who sits exactly between G and C, when counted from the right of G?
- (1) E
 - (2) F
 - (3) H
 - (4) D
 - (5) B
11. Who sits to the immediate left of B?
- (1) A
 - (2) H
 - (3) Other than those given as options
 - (4) D
 - (5) G
12. Four of the following five are alike in a certain way based on the given sitting arrangement and to form a group. Which is the one that does not belong to that group?
- (1) F
 - (2) H
 - (3) C
 - (4) G
 - (5) A
13. This question consists of a statement and two conclusions numbered I and II given below it. A conclusion is something which can be directly deduced from the given information in light of all the given facts. You have to decide which of the given conclusions logically follows from the given statements and select the appropriate answer.

Statement At present 10% of our villages receive 24 hours electricity. In the next two years, the State government would strive to add 16% more villages to this list.

Conclusions I. At present 60% villages in the State have no access to electricity at all.
II. Even after a couple of years, more than that of the villages may lack access to 24 hours electricity.

- (1) Only II can be concluded from the given information.
- (2) Only I can be concluded from the given information 1.
- (3) Neither I nor II can be concluded from the given information.
- (4) Both I and II can be concluded from the given information.
- (5) Either I or II can be concluded from the given information.

Directions (Q. Nos. 14-19) : Study the given information and answer the questions.

When a word and number arrangement machine is given an input line of words and numbers. it arranges them following a particular rule. The following is an illustration of input and rearrangement :

- Input initiators 32 67 of 40 the company 21 are 18 96 humble
- Step I 21 initiators 32 67 of 40 the company are 96 humble 18
- Step II company 21 initiators 32 67 of 40 the 96 humble 18 are
- Step III 40 company 21 initiators 67 of the 96 humble 18 are 32
- Step IV initiators 40 company 21 67 of the 96 18 are 32 humble
- Step V 96 initiators 40 company 21 of the 18 are 32 humble 67
- Step VI the 96 initiators 40 company 21 18 are 32 humble 67 of
- Step VI is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the given steps, find out the appropriate steps for the given input.
- Input parenting 16 36 and raising 44 children 21 is 89 very 95 demanding 72 job 65

14. In which step are the elements '95 job 16 and' found in the same order?

- (1) The given order of elements is not found in any step
- (2) Fifth
- (3) Fourth
- (4) Second
- (5) Third

15. What is the position of the '72' from the right end in the fourth step?

- (1) Fifth
- (2) Eight
- (3) Ninth
- (4) Seventh
- (5) Sixth

16. Which element is fifth to the left of the element which is tenth from the left end of the third step?

- (1) raising
- (2) parenting
- (3) is
- (4) 72
- (5) job

17. How many steps will be required to complete the given arrangement based on the given input?

- (1) Ten
- (2) Eight
- (3) Six
- (4) Nine
- (5) Seven

18. Which element is exactly between 'parenting' and 'raising' in the second step of the given arrangement?

- (1) 36
- (2) 16
- (3) 44
- (4) 21
- (5) 95

19. Which of the following is the third last step of the arrangement based on the given input?

- (1) 72 44 21 parenting is raising children 89 very 95 and job demanding 16 36 65
- (2) 72 parenting 44 is 21 children raising 89 very 95 and 16 demanding 36 job 65
- (3) parenting 72 is 44 children 21 raising 89 very 95 16 and 36 demanding 65 job
- (4) parenting job is demanding children raising 89 very 95 16 and 36 21 44 65 72
- (5) parenting is 72 44 children raising 21 89 very 95 16 and 36 65 demanding job

20. Read the given information carefully and answer the given question :

Charities do not have charge VAT to customers. Therefore, charity stores can charge lower prices as compared to the other stores, which are not registered as charity.

- (1) Charity stores pay less tax than Non-Charity stores
- (2) VAT leads to increment in prices of things
- (3) The stores recover their taxes from the customers

(4) Since Charities do not charge VAT, their products are of lower quality

Which of the following can be inferred from the given statements?

- (1) None of the given statements
- (2) Both C and D
- (3) Only C
- (4) Only A
- (5) Both B and C

Directions (Q. Nos. 21-25) : Read the given information carefully and answer the given questions.

Ten people are sitting in two parallel rows, containing five people each in such a way that there is equal distance between adjacent persons. In row-1: J, K, L, M and N are seated and all of them are facing North and in row-2: P, Q, R, S and T are seated and are facing South (but not necessarily in the same order). Each person also likes a different cartoon character namely, Batman, Ben 10, Dexter, Donald Duck, Tom Jerry, Noddy, Oswald, Superman and Spiderman (not necessarily in the same order).

N sits exactly in the centre of the row and faces the one who likes Tom. Only one person sits between S and the one who likes Tom. S faces one of the immediate neighbours of the one who likes Jerry. Only two people sit between K and the one who likes Jerry. K faces the one who likes Oswald. P faces one of the immediate neighbours of L. P does not like Oswald. M is an immediate neighbour L.

The one who likes Donald Duck is not an immediate neighbour of L. T is not an immediate neighbour of P and faces the one who likes Ben 10. R faces the one who likes Superman. The one who likes Spiderman faces North.

P does not face the one who likes Spiderman. The one who likes Batman sits to the immediate right of the person who likes Noddy. S does not like Batman.

21. Which of the following pairs represent the people sitting at the extreme end of the two rows?

- (1) S, M
- (2) Q, L
- (3) P, N
- (4) Q, J
- (5) R, L

22. Who amongst the following likes Donald Duck?

- (1) S
- (2) P
- (3) T
- (4) R
- (5) Q

23. Who amongst the following is an immediate neighbour of the one who likes Spiderman?

- (1) The one who likes Jerry
- (2) The one who likes Noddy
- (3) K
- (4) The one who likes Ben 10
- (5) T

24. Which of the following cartoon character does T like?

- (1) Batman (2) Tom
(3) Jerry (4) Noddy
(5) Oswald

25. Which of the following is definitely true as per the given arrangement?

- (1) L faces R
(2) Q likes Oswald
(3) Q is an immediate neighbour of P
(4) The one who like Superman is an immediate neighbour of P
(5) The one who likes Dexter faces N

Directions (Q. Nos. 26-27) : In these questions is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of those is/are implicit in the person's statement.

26. Statement Send employee XYZ for a training in UK to gain more insight into the project which he is handling at present.

- I. Some similar training programs are available in the employee's own country as well.
II. With the present skill sets, employee XYZ is incapable of handling the project.

- (1) Only I is implicit
(2) Either I or II is implicit
(3) Only II is implicit
(4) Both I and II are implicit
(5) Neither I nor II is implicit

27. Statement Minute traces of nitrate sometimes present in cattle fodder B may be responsible for the poor health of the cattle therefore use fodder G to ensure that your cattle remain healthy.

- I. Cattle fodder G does not contain nitrat.
II. Nitrate is toxic to all living beings.

- (1) Only I is implicit
(2) Either I or II is implicit
(3) Only II is implicit
(4) Both I and II are implicit
(5) Neither I nor II is implicit

Directions (Q. Nos. 28-30) : Study the following information and answer the given questions.

M is mother of B. A is the husband of N. N is the only brother of B. C is married to N. Q is the only child of C. N does not have any sister. J is the father of A.

28. If A does not have any grandson, then how is Q related to B?

- (1) Cannot be determined
(2) Sister in law
(3) Daughter in law
(4) Niece
(5) Nephew

29. How is A related to C?

- (1) Uncle
(2) Cannot be determined
(3) Father in law
(4) Nephew
(5) Brother in law

30. How is B related to J?

- (1) Father (2) Nephew
(3) Brother in law (4) Brother
(5) Grandson

Directions (Q. Nos. 31-35) : Read the given information and answer the given questions.

Eight people P, Q, R, S, T, U, V and W live on separate floors of an 8-floor building. Ground floor is numbered-1, first floor is numbered-2 and so on until the topmost floor is numbered-8.

P lives on floor numbered five. Only two people live between P and Q. Q lives above P. V lives immediately above S. T lives immediately above R.

Only one person lives between T and W. T lives above W. U lives on an odd numbered floor.

31. How many people live between the floors on which S and R live?

- (1) More than four (2) Four
(3) Two (4) One
(5) Three

32. Who lives on the floor immediately above P?

- (1) R (2) W
(3) S (4) U
(5) Other than those given as options

33. Which of the following is true with respect to the given information?

- (1) Only one person lives between W and U
(2) U lives on floor No. 1
(3) V lives on the top most floor
(4) Only two people live between T and S
(5) P lives immediately above W

34. Who among the following lives on floor no. 2?

- (1) T (2) S (3) W (4) R (5) V

35. Which of the following lives between R and U?

- (1) P (2) No-one
(3) T (4) W
(5) V

Directions (Q. Nos. 36-41) : In these questions, relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions. Study the conclusions based on the given statement and select the appropriate answer.

36. Statements $A < B \leq C = D,$
 $K \geq J > C$

Conclusions I. $C < K$
II. $B \leq D$

- (1) Only conclusion I is true
(2) Only conclusion II is true
(3) Neither conclusion I nor II is true
(4) Either conclusion I or II is true
(5) Both conclusions I and II are true

37. Statement $A < B \leq C = D$
 $K \geq J > C$

Conclusions I. $A \geq J$
II. $K > B$

- (1) Only conclusion I is true
(2) Only conclusion II is true
(3) Neither conclusion I nor II is true
(4) Either conclusion I or II is true
(5) Both conclusions I and II are true

38. Statement $B \geq L > A \geq N < K$

Conclusions I. $B > N$
II. $L < K$

- (1) Only conclusion I is true
(2) Only conclusion II is true
(3) Neither conclusion I nor II is true
(4) Either conclusion I or II is true
(5) Both conclusions I and II are true

39. Statements $B \geq L > A \geq N < K$

Conclusions I. $L > N$
II. $L = N$

- (1) Only conclusion I is true
(2) Only conclusion II is true
(3) Neither conclusion I nor II is true
(4) Either conclusion I or II is true
(5) Both conclusions I and II are true

40. Statements $A > B > C \leq D = E \leq F$

Conclusions I. $C < F$
II. $C = F$

- (1) Only conclusion I is true
(2) Only conclusion II is true

(3) Neither conclusion I nor II is true

(4) Either conclusion I or II is true

(5) Both conclusions I and II are true

41. Statements $A > B > C \leq D = E \leq F$

Conclusions I. $A > D$

II. $B \leq E$

(1) Only conclusion I is true

(2) Only conclusion II is true

(3) Neither conclusion I nor II is true

(4) Either conclusion I or II is true

(5) Both conclusions I and II are true

Directions (Q. Nos. 42-44) : Read the following information carefully and answer the questions.

Each of the six poles P, Q, R, S, T and U has a different height. P is taller than only three poles. S is taller than T but shorter than U. U is shorter than P. Q is not the tallest. The second shortest pole is 2 ft tall. The third tallest pole is 5 ft tall.

42. Which of the following may be the possible height of pole U?

- (1) 7 ft (2) 2 ft
(3) 5 ft (4) 3 ft
(5) 1 ft

43. The tallest pole is 11 ft taller than S. Which of the following may be the possible height of Q?

- (1) 4 ft (2) 9 ft
(3) 13 ft (4) 16 ft
(5) 17 ft

44. Which of the following is true with respect to the given information?

- (1) Only two poles are shorter than Q.
(2) Q's height is definitely less than 2 ft.
(3) None of the given option is true
(4) S is the second tallest pole
(5) T is the shortest pole

Directions (Q. Nos. 45-49) : These questions consist of a question and two statements numbered I and II given below it. You have to decide whether the data give in the statements are sufficient to answer the question. Read both the statements and choose the most appropriate option.

45. Among V, W, X, Y and Z, seated in a straight line, facing North, who sits exactly in the middle of the line?

I. W sits third to the right of Z, is an immediate neighbour of W. V sits to immediate left of Y.

II. X sits at one of the extreme ends of the line. Only two people sit between X and V. Y does not sit at any of the extreme ends of the line.

- (1) The data either in statement I alone or statement II alone are sufficient to answer the question
 - (2) The data even in both statements I and II together are not sufficient to answer the question
 - (3) The data in statement II alone are sufficient to answer the question while the data in statement I alone are not sufficient to answer the question
 - (4) The data in both the statement I and II together are necessary to answer the question
 - (5) The data in statement I alone are sufficient to answer the question while the data in statement II alone are not sufficient to answer the question
46. Out of P, Q, R, S and T does R earn more than Rs. 40000.
- I. S earns more than only R and T. P earns the maximum. T earns Rs. 50000.
 - II. Q earns less than only P. R earns less than Q. Q earns Rs. 80000.
- (1) The data either in statement I alone or statement II alone are sufficient to answer the question
 - (2) The data even in both statements I and II together are not sufficient to answer the question
 - (3) The data in statement II alone are sufficient to answer the question while the data in statement I alone are not sufficient to answer the question
 - (4) The data in both the statement I and II together are necessary to answer the question
 - (5) The data in statement I alone are sufficient to answer the question while the data in statement II alone are not sufficient to answer the question
47. Among the six friends A, B, C, D, E and F, sitting around a circular table facing the centre, who sits to immediate left of C?
- I. A sits second to left of C and third to right of F. B is an immediate neighbour of E
 - II. E is an immediate neighbour of both B and F. Only three people sit between B and D. F is an immediate neighbour of C
- (1) The data either in statement I alone or statement II alone are sufficient to answer the question
 - (2) The data even in both statements I and II together are not sufficient to answer the question
 - (3) The data in statement II alone are sufficient to answer the question while the data in statement I alone are not sufficient to answer the question
 - (4) The data in both the statement I and II together are necessary to answer the question
 - (5) The data in statement I alone are sufficient to answer the question while the data in statement II alone are not sufficient to answer the question
48. How is 'success' written in the code language?
- I. 'success is necessary evil' is written as '1845', 'evil is amongst us' is written as '3874'.
 - II. 'marketing is magic mantra' is written as '4629' and 'success mantra is marketing' is written as '2564'.
- (1) The data either in statement I alone or statement II alone are sufficient to answer the question
 - (2) The data even in both statement I and II together are not sufficient to answer the question
 - (3) The data in statement II alone are sufficient to answer the question while the data in statement I alone are not sufficient to answer the question
 - (4) The data in both the statement I and II together are necessary to answer the question
 - (5) The data in statement I alone are sufficient to answer the question while the data in statement II alone are not sufficient to answer the question
49. A five storey building (consisting of a ground floor and four floors on top of it such that the ground floor is numbered 1, the floor above it, numbered 2 and so on till the topmost floor is numbered 5) houses different people viz. H, I, J, K and L. Who lives on the lowermost floor (i.e., floor no. 1)?
- I. J lives on floor no. 3. K lives immediately below L. K lives on an even numbered floor.
 - II. Only two people live between L and H. L lives above H. J lives immediately before K. J lives on an odd numbered floor.

- (1) The data either in statement I alone or statement II alone are sufficient to answer the question
 - (2) The data even in both statement I and II together are not sufficient to answer the question
 - (3) The data in statement II alone are sufficient to answer the question while the data in statement I alone are not sufficient to answer the question
 - (4) The data in both the statement I and II together are necessary to answer the question
 - (5) The data in statement I alone are sufficient to answer the question while the data in statement II alone are not sufficient to answer the question
50. Read the following information carefully and answer the question which follows.
Most students from State X prefer to move base to other States for higher education. The government of the State is concerned about this problem as these students might not come back even after completing their education.
Which of the following statements may be a course of action to deal with this problem?
- (1) The government should set-up well equipped State of the art universities which will provide quality education
 - (2) The government should not give much importance to this problem as there is high density of population per square km in the State
 - (3) Scholarships should be declared for those students who perform well in tenth and twelfth standard examinations
 - (4) All the colleges and universities should be asked to emphasise the importance of higher education and benefits of studying in their institute should also be highlighted
 - (5) The government should make education free for all people of the State



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