

PREVIOUS PAPER

## IBPS RRB (GROUP A OFFICERS) EXAM

(Based on memory) Held on 02-09-2012

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### Test-I Reasoning Ability

**Directions (Q 1-5)** In each of the question- sets below are two/ three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer

- 1) if only conclusion I follows.
- 2) if only conclusion II follows.
- 3) if either conclusion I or conclusion II follows
- 4) if neither conclusion I nor conclusion II follows
- 5) if both conclusion I and conclusion II follow.

**(1-3): Statements:** All stars are bottles.

Some bottles are papers.

No paper is a calender.

**1. Conclusions:** I. All stars being papers is a possibility.

II. No calendar is a bottle.

**2. Conclusions:** I. All calenders being stars is a possibility.

II. At least some bottles are stars.

**3. Conclusions:** I. At least some calendars are bottles.

II. No calender is a star.

**(4-5): Statements:** Some pencils are blankets.

All blankets are erasers.

**4. Conclusions:** I. At least some pencils are erasers.

II. All erasers being pencils is a possibility.

**5. Conclusions:** I. No eraser is a pencil.

II. All blankets being pencils is a possibility.

**Directions (6-10):** Each of the following questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

- 1) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient in answer the question.
- 2) if 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.
- 3) if the data in either in statement I alone or in statement II alone are sufficient to answer the question.
- 4) If the data in both the statements I and II together are not sufficient to answer the question.
- 5) if the data in both the statements I and II are together necessary to answer the question.
6. Who amongst P, Q, R, S and T is the tallest?  
I. P is taller than Q. T is not the tallest.  
II. R is taller than P. S is not the tallest.
7. In which direction is point E, with reference to point S?  
I. Point D is to the east of point E. Point E is to the south of point F.  
II. Point F is to the north-west to point S. Point D is to the north of point S.
8. In which month of the year did Rahul go abroad for a vacation?  
I. Rahul correctly remembers that he went for a vacation in the first half of the year.  
II. Rahul's son correctly remembers that they went for a vacation after 31<sup>st</sup> March but before 1<sup>st</sup> May.
9. On which day of the same week is Ramesh's exam scheduled (Monday being the first day of the week)?  
I. Ramesh correctly remembers that his exam is scheduled on a day after Tuesday, But before Thursday of the same week.  
II. Ramesh's father correctly remembers that Ramesh's exam is scheduled on the third day of the week.



ond to the right of E. B sits third to the left of E.

- ★ D faces the centre. Both the immediate neighbours of D face outside.
- ★ G sits second to the left of A. B sits third to the right of H.
- ★ F is an immediate neighbour of D. C is an immediate neighbour of G.
- ★ D is not an immediate neighbour of B.

**16.** Who amongst the following sits on the immediate right of H?

- 1) A
- 2) D
- 3) C
- 4) G
- 5) None of these

**17.** Who amongst the following sits third to the right of A?

- 1) D
- 2) E
- 3) F
- 4) A
- 5) None of these

**18.** Four of the following five are alike in a certain way, based on the information given above and so form a group. Which is the one that does not belong to that group?

- 1) HA
- 2) FH
- 3) GC
- 4) DA
- 5) AE

**19.** If all the people are made to sit in an alphabetical order, in clockwise direction, starting from A, the position of whom amongst the following remains the same (excluding A)?

- 1) E
- 2) F
- 3) C
- 4) G
- 5) None of these

**20.** How many people are seated between A and C (counting clockwise from A)?

- 1) Two
- 2) Four
- 3) None
- 4) One
- 5) Three

**21.** Who amongst the following sits exactly between F and C (and is also their neighbour)?

- 1) E
- 2) B
- 3) G
- 4) A
- 5) None of these

**Directions (Q. 22-30):** Study the information given below and answer the given questions.

Nine people, A, B, C, D, E, F, G, H and J stay in a building, but not necessarily in the same order. The building has nine floors and only one person stays on one floor. All of them own one car each, and each car is of a different colour, ie blue, grey, white, black, yellow, green, red, orange and pink, but not necessarily in the same order. The Ground floor is numbered 1, the floor above it is numbered 2, and so on, and the top-most floor is numbered 9.

H owns a black-coloured car and stays on an even-numbered floor. A stays on any even-numbered floor below the floor on which H stays. The one who owns an orange coloured car stays on the fourth floor. E stays on the second floor and owns a white-coloured car. The one who owns a pink-coloured car stays on the third floor. A does not own a green-coloured car. There are two floors between the floors on which the people owning the red and the black-coloured cars stay. C owns a grey-coloured car. There are three floors between the floors on which C and G stay. D stays on a floor immediately above J's floor. There is one floor between the floors on which F and G stay. F does not own the pink- coloured car. The one who owns the blue car stays on the topmost floor. F does not stay on the ground floor.

**22.** Who amongst the following owns the green-coloured car

- |      |                  |      |
|------|------------------|------|
| 1) D | 2) J             | 3) G |
| 4) F | 5) None of these |      |

**23.** Who amongst the following stays on the topmost floor?

- |      |                  |      |
|------|------------------|------|
| 1) F | 2) G             | 3) D |
| 4) C | 5) None of these |      |

**24.** A owns a car of which of the following colours?

- |           |                  |           |
|-----------|------------------|-----------|
| 1) Orange | 2) Pink          | 3) Yellow |
| 4) Blue   | 5) None of these |           |

**25.** Who stays on the floor which is exactly between the floor on which H stays and the floor on which A stays?

- |      |                  |      |
|------|------------------|------|
| 1) B | 2) G             | 3) C |
| 4) F | 5) None of these |      |



34. 1) Employed                      2) Trained                      3) Hired  
4) Appointed                      5) Commissioned
35. 1) Quick                              2) Brisk                              3) Quiet  
4) Fast                                  5) Rapid
36. Four of the following five are alike in a certain way (based on the English alphabetical series) and hence form a group. Which is the one that does not belong to that group if the English alphabetical series is broken into two equal halves, ie the first 13 alphabets are clubbed together and the last 13 alphabets are clubbed separately?
- 1) FH                                      2) SU                                      3) MA  
4) CK                                      5) LB

**Directions (Q. 37-40):** In each of these questions, relationship between different elements is shown in the statements. The statements are followed by two conclusions.

**Give answer**

- 1) if only conclusion I is true.
- 2) if only conclusion II is true.
- 3) if either conclusion I or II is true.
- 4) if neither conclusion I nor II is true.
- 5) if both the conclusions I and II are true.

**(37-38):**

**Statements:**  $A > B = C$ ;  $E = F$ ;  $E \geq D > C$

**37. Conclusions:** I.  $B < E$  II.  $F < B$

**38. Conclusions:** I.  $C < F$  II.  $A > C$

**(39-40):**

**Statements:**  $I \leq J$ ;  $K < L > M$ ;  $J = K$ ;  $G \geq H = I$

**39. Conclusions:** I  $H < J$  II.  $J < G$

**40. Conclusions:** I.  $L > J$  II.  $J < M$

**Directions (Q. 41-50):** In each of the questions given below which one of the five answer figures on the right should come after the problem figures on the left, if the sequence were continued?

## Problem Figures

41.

S = Z ★ X O D U ■	D U O □ ★ ■ = Z	Z D O S U ■ ★ □ =	★ □ Z ■ Δ S = D O	O ★ ■ Z □ = S Δ D
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## Answer Figures

S = O ★ V Δ D Z ■	■ Δ D = V Z O ★ S	S Δ O = □ Z D ★ ■	S Δ O = V Z D ★ ■	S Δ O Z V = D ★ ■
1	2	3	4	5

## Problem Figures

42.

L ★ □ ☒ Δ Δ	□ L C ★ ☒ ☒ C C	★ O Δ □ ☒ ☒ C C	Δ ★ □ O ☒ ☒ □	O S C Δ ☒ ☒ □
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## Answer Figures

C O Δ S □ ☒	Δ T ☒ O □ C	C O Δ S ☒ □	S Δ O C ☒ □	S Δ O C ☒ □
1	2	3	4	5

## Problem Figures

43.

★ V C U S 3	5 V ★ n ⊃ 5 □ Δ	5 Δ V ⊃ n S 6 ★	6 V Δ U C 6 5 =	5 = V C U S ↑ Δ	↑ 6
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## Answer Figures

Δ = n ⊃ ↑ V	6 V = n ⊃ ↑ S •	5 V = ⊃ n ↑ Z •	5 5 = n ⊃ ↑ Z •	V 5 ↑ C ⊃ = Z •	V
1	2	3	4	5	.

## Problem Figures

44.

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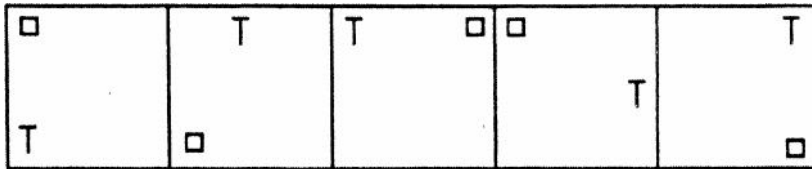
## Answer Figures

1	2	3	4	5

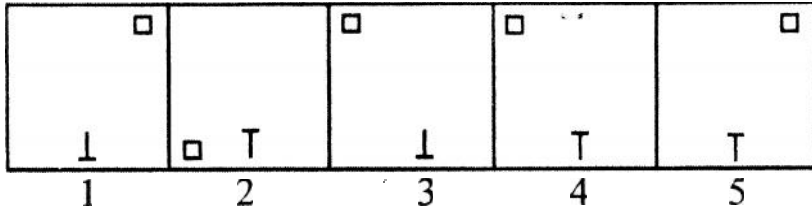


## Problem Figures

45.

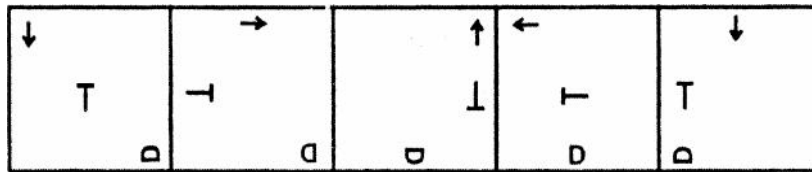


## Answer Figures

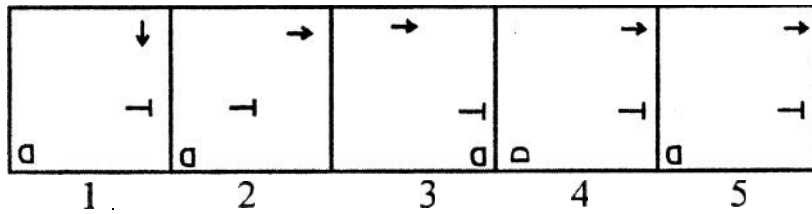


## Problem Figures

46.

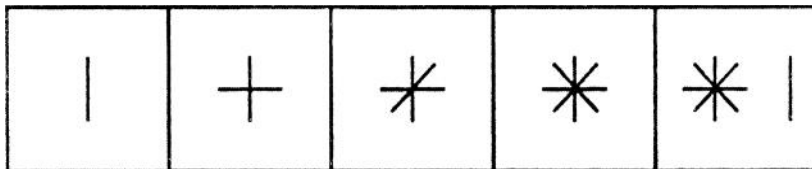


## Answer Figures

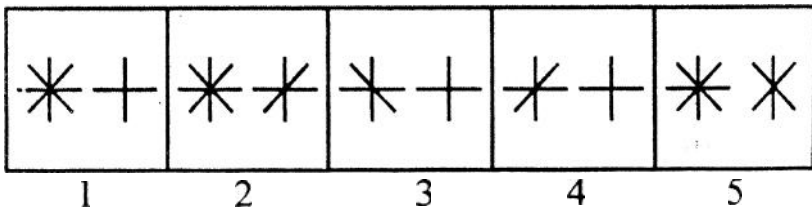


## Problem Figures

47.

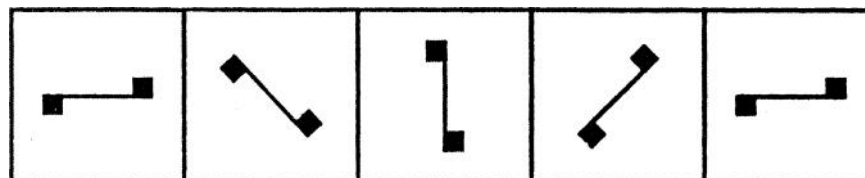


## Answer Figures

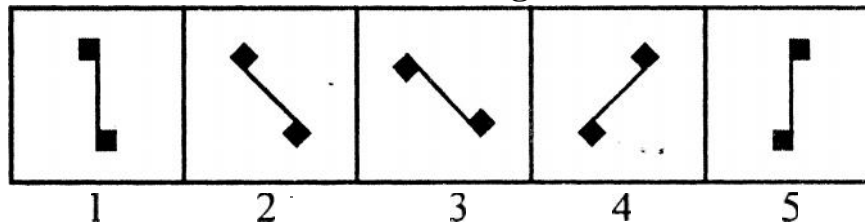


## Problem Figures

48.

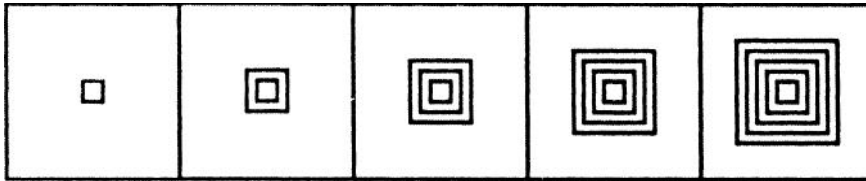


## Answer Figures

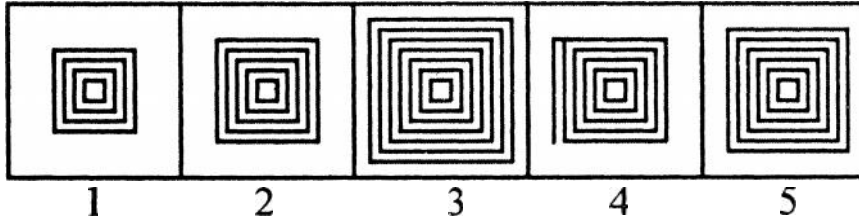


## Problem Figures

49.

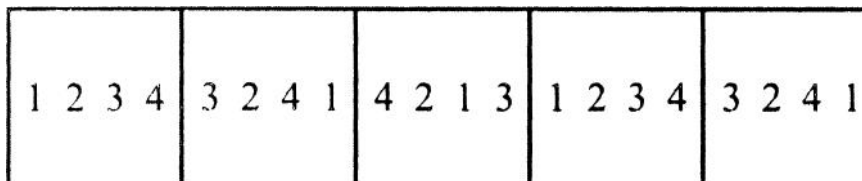


## Answer Figures

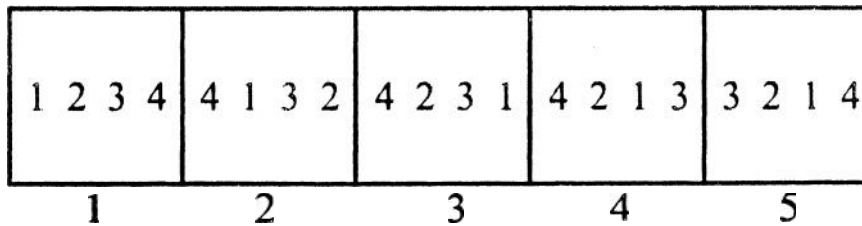


## Problem Figures

50.



## Answer Figures



## Test-II: Quantitative Aptitude

*Directions (Q. 51-55): What will come in place of question mark (?) in the following questions?*

51.  $(\sqrt{5}-\sqrt{10})^2 + (\sqrt{2} + 5)^2 = (?)^3 - 22$

1)  $\sqrt{2}$

2) 2

3) 16

4) 8

5) None of these

52.  $55\% \text{ of } \sqrt{2116} \div 0.01 = ? \times 20$

1) 126.5

2) 126.6

3) 124.6

4) 125.4

5) None of these

53.  $\sqrt{12^2 \times 16 \div 24 + 193 + 7} \times 5 = (?)^2$

1)  $3\sqrt{2}$

2)  $4\sqrt{2}$

3)  $5\sqrt{2}$

4) 18

5) 32

54.  $\sqrt{31.36} \div \sqrt{0.64} \times 252 = (?)^2$   
 $\times 36$

- 1) 81                                      2) 64                                      3) -8  
 4) -7                                      5) 9

55.  $(1.69)^4 \div (2197 \div 1000)^3 \times (0.13 \times 10)^3 =$   
 $(1.3)^{?-2}$

- 1) 6                                      2) 2                                      3) 4  
 4) 0                                      5) None of these

**Directions (Q. 56-60):** What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value).

56.  $68\% \text{ of } 1288 + 26\% \text{ of } 734 - 215 = ?$

- 1) 620                                      2) 930                                      3) 540  
 4) 850                                      5) 710

57.  $(32.05)^2 - (18.9)^2 - (11.9)^2 = ?$

- 1) 670                                      2) 530                                      3) 420  
 4) 780                                      5) 960

58.  $6578 \div 67 \times 15 = ?$   
 $\times 6$

- 1) 200                                      2) 250                                      3) 150  
 4) 100                                      5) 300

59.  $\frac{679}{45} \div \frac{23}{2130} \times \frac{126}{169} = ?$

- 1) 540                                      2) 760                                      3) 800  
 4) 1260                                      5) 1040

60.  $\sqrt{5687} \times \sqrt{1245} \div \sqrt{689} = ? \div 13$

- 1) 840                                      2) 910                                      3) 1320  
 4) 1120                                      5) 1550

**Directions (Q. 61-63):** What will come in place of question mark (?) in the following number series?

61. 987 587 331 187 123 (?)

- 1) 104                                      2) 113                                      3) 107

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4) 114

5) None of these



- 1) 28 years                      2) 34 years                      3) 32 years  
4) Cannot be determined                      5) None of these

**72.** The ratio between the three angles of a quadrilateral is 3 : 5 : 9. The value of the fourth angle of the quadrilateral is  $71^\circ$ . What is the difference between the largest and the smallest angles of the quadrilateral?

- 1)  $82^\circ$                       2)  $106^\circ$                       3)  $102^\circ$   
4)  $92^\circ$                       5) None of these

**73.** If twentyfive percent of three-sevenths of twenty six percent of a number is 136.5, what is the number?

- 1) 6300                      2) 5600                      3) 4800  
4) 4900                      5) None of these

**74.** The ratio between the speed of a truck, car and train is 3:8:12. The car moved uniformly and covered a distance of 1040 km in 13 hours. What is the average speed of the truck and the train together?

- 1) 75Km/hr                      2) 60Km/hr  
3) 48km/hr                      4) Cannot be determined                      5) None of these

**75.** The second largest and the smallest angles of a triangle are in the ratio of 6:5. The difference between the second largest angle and the smallest angle of the triangle is equal to  $9^\circ$ . What is the difference between the smallest and the largest angles of the triangle?

- 1)  $36^\circ$                       2)  $24^\circ$                       3)  $12^\circ$   
4)  $18^\circ$                       5) None of these

**76.** The circumference of a circle is twice the perimeter of a rectangle. The area of the circle is 5544 Sqcm. What is the area of the rectangle if the length of the rectangle is 40cm?

- 1) 1120 Sq cm                      2) 1020 Sq cm  
3) 1140 Sq cm                      4) 1040 Sq cm                      5) None of these

**77.** A 476-metre-long moving train crosses a pole in 14 seconds. The length of a platform is equal to the distance covered by the train in 20 Seconds. A man crosses the same platform in 7 minutes and 5 seconds. What is the speed of the man in metre/second?

- 1) 1.8 m/s                      2) 1.4 m/s

- 3) 1.6 m/s                      4) 2 m/s                      5) 1.2 m/s

**78.** Two-Thirds of Ranjit's monthly salary is equal to Raman's monthly Salary. Raman's Monthly salary is thirty percent more than Pawan's monthly salary. Pawan's Monthly salary is ₹32000. What is Ranjit's monthly salary?

- 1) ₹64200                      2) ₹62500                      3) ₹64500  
4) ₹62400                      5) None of these

**79.** The simple interest accrued on a sum of a certain Principal is ₹35,6727 in seven years at the rate of 8 pcpa. What would be the compound interest accrued on that principal at the rate of 2 pcpa in 2 years?

- 1) ₹2573.48                      2) ₹2564.86                      3) ₹2753.86  
4) ₹2654.48                      5) None of these

**80.** In a class there are 60 students, out of whom 15 percent are girls. Each girl's monthly fee is 250 and each boy's monthly fee is 34 percent more than a girl. What is the total monthly fees of girls and boys together?

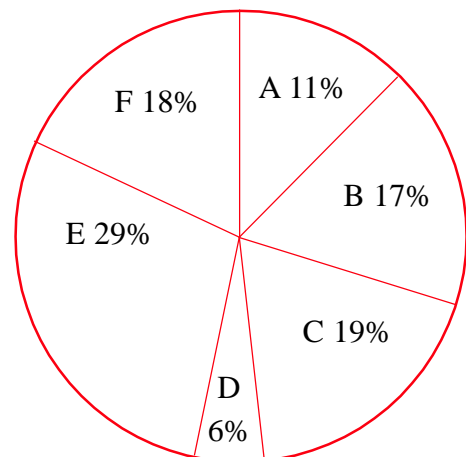
- 1) ₹19335                      2) ₹18435                      3) ₹19345  
4) ₹19435                      5) None of these

**Directions (Q. 81-85):** Study the following pie-chart and answer the following questions.

**Percentage-wise distribution of teachers  
in six different universities.**

**Total number of teachers = 6400**

**Percentage of Teachers**



**81.** The number of teachers in University B is approximately what percent of the total number of teachers in University D and University E together?

- 1) 55                      2) 59                      3) 49                      4) 45                      5) 65

**82.** If twenty five percent of the teachers in University C are females, What is the number of male teacher in University C?

- 1) 922                      2) 911                      3) 924                      4) 912                      5) None of these

**83.** The difference between the total number of teachers in University A, University B and University C together and the total number of teachers in University D, University E and University F together is exactly equal to the number of teachers of which University?

- 1) University A                      2) University B                      3) University C  
4) University D                      5) University F

**84.** If one-thirtysixth of the teachers from University F are Professors and the salary of each professor is Rs.96000, What will be the total salary of all the professors together from University F?

- 1)Rs.307.2 Lakh                      2)Rs 32.64 lakh                      3)Rs 3.072 Lakh  
4)Rs3.264 lakh                      5) None of these

**85.** What is the average number of teachers in University A, University C, University D and University F together?

- 1) 854                      2) 3546                      3) 3456                      4) 874                      5) None of these

**Directions: (Q. 86-90): Study the table carefully to answer the questions that follow Number of cars (in thousand) of two models (Basic and Premium) produced by five different companies in five different years**

Company	A		B		C		D		E	
Year	Basic	Premium	Basic	Premium	Basic	Premium	Basic	Premium	Basic	Premium
2006	4.4	2.5	5.6	2.4	5.4	6.1	7.6	7.5	2.7	5.1
2007	4.9	7.2	9.4	7.2	7.5	8.3	8.4	4.9	4.2	5.5
2008	13.6	15.5	14.8	9.5	12.8	9.9	9.2	8.2	7.7	11.5
2009	6.6	13.9	11.8	11.4	16.6	18.2	10.6	10.4	7.2	12.8
2010	5.8	14.9	12.2	7.2	19.9	22.3	14.6	12.2	13.2	12.2

**86.** The number of cars of premium model produced by company D in the year 2009 was approximately what percent of the total number of cars (both models) produced by Company C in the year 2007?

- 1) 70                                      2) 51                                      3) 56  
4) 61                                      5) 66



