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PREVIOUS PAPER

## IBPS RRB (GROUP A OFFICERS) EXAM

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

## 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.

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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 $\mathrm{P}, \mathrm{Q}, \mathrm{R}, \mathrm{S}$ and T is the tallest?
I. P is taller than Q . T is not the tallest.
II. R is taller than P. S in 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 $31^{\text {st }}$ March but before $1^{\text {st }}$ 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.

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10. How many marks has Suman scored in the test?
(Maximum marks 20)
I. Suman scored two-digit marks. Her marks were not in decimals.
II. Suman scored more than 9 marks in the test.

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

In a certain code 'facing problems with health' is coded as 'mlp hlt ngi snk', 'health problems on rise' is coded as 'hlt sa rtv mlp', 'rise with every challenge' is coded as 'snk rtv lne riy' and 'facing challenge each day' is coded as 'ngi riy nop hus'.
11. What could be a code for "lne"?

1) facing
2) with
3) every
4) rise
5) challenge
12. "riy rtv roi" could be a code for which of the following?
1) rise above challenge
2) rise health challenge
3) day rise challenge
4) with rise challenge
5) challenge every rise
13. Which of the following is the code for "facing"?
1) nop
2) rtv
3) ngi
4) snk
5) sa
14. "riy snk mlp" could be a code for which of the following?
1) problem every day
2) challenge with health
3) with health day
4) every challenge facing
5) challenge facing with
15. Which of the following is the code for 'day'?
1) riy
2) nop
3) ngi
4) hus
5) Cannot be determined

## Directions (Q. 16-21): Study the information given below and answer the given questions.

Eight friends A, B, C, D, E, F, G and H are sitting in a circle, but not necessarily in the same order. Four of them are facing outside and four of them are facing the centre.
$\star \quad \mathrm{E}$ faces outside. Both the immediate neighbours of E face the centre. H sits sec-
ond to the right of E. B sits third to the left of E.
$\star \quad \mathrm{D}$ faces the centre. Both the immediate neighbours of D face outside.
$\star \quad \mathrm{G}$ sits second to the left of A. B sits third to the right of H .
$\star \quad \mathrm{F}$ is an immediate neighbour of $\mathrm{D} . \mathrm{C}$ is an immediate neighbour of G .
$\star \quad \mathrm{D}$ 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

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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 topmost 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 whitecoloured 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

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26. How many floors are there between the floor on which J stays and the floor on which C stays?
1) One
2) Two
3) None
4) Three
5) More than three
27. Which of the following is true as per the given information?
1) B stays on a floor immediately below the floor on which H stays.
2) G stays on a floor immediately above the floor on which A stays.
3) F stays on the eighth floor.
4) D owns the orange-coloured car.
5) None is true
28. On which of the following floors does G stays?
1) 1 st
2) 6 th
3) 5 th
4) 7 th
5) None of these
29. $B$ is related to $C$ in the same way as $H$ is related to $E$ as per the given information. Following the same pattern, F is related to which of the following?
1) J
2) $D$
3) A
4) G
5) None of these
30. What is the colour of the car of the person who stays on the ground floor?
1) Red
2) Green
3) Yellow
4) Grey
5) None of these
31. How many meaningful words can be made with the alphabets $D, R, H$ and $A$ each being used only once in each word?
1) None
2) One
3) Two
4) Three
5) More than three
32. How many such pairs of letters are there in the word TELEPATHY, each of which has as many letters between them in the word (in both forward and backward directions), as they have between them in the English alphabetical series?
1) One
2) Two
3) None
4) Three
5) More than three

## Direction (Q. 33-35): Four of the following five are alike in a certain way and so

 form a group. Which is the one that does not belong to that group?33. 34) Repair
2) Mend
3) Correct
4) Rectify
5) Trouble

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34. 35) Employed
2) Trained
3) Hired
4) Appointed
5) Commissioned
35. 36) 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: $\mathrm{A}>\mathrm{B}=\mathrm{C} ; \mathrm{E}=\mathrm{F} ; \mathrm{E} \geq \mathrm{D}>\mathrm{C}$
37. Conclusions: I. $\mathrm{B}<\mathrm{E}$ II. $\mathrm{F}<\mathrm{B}$
38. Conclusions: I. C $<$ F II. A $>\mathrm{C}$
(39-40):
Statements: $\mathrm{I} \leq \mathrm{J} ; \mathrm{K}<1>\mathrm{M} ; \mathrm{J}=\mathrm{K} ; \mathrm{G} \geq \mathrm{H}=\mathrm{I}$
39. Conclusions: I H $<\mathrm{J}$ II. J $<\mathrm{G}$
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.


| $\begin{gathered} s \\ \overline{=} \\ 0 \star v \Delta D \\ z \\ z \end{gathered}$ | $D=\stackrel{\Delta}{v} \geq 0$ | $\begin{aligned} & \mathrm{S} \\ & \Delta \\ & 0= \\ & \square \\ & \star \\ & \vdots \\ & \vdots \end{aligned}$ | $\begin{array}{llll\|} \hline S \\ \Delta \\ \Delta & \\ \vdots & z & 0 \\ \vdots & & \\ \hline \end{array}$ | OZ$s$ <br> $\Delta$ <br> $\star$ <br> $\vdots$ <br> $\vdots$$=0$ |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 |

Problem Figures
42.


Answer Figures


Problem Figures
43.


Answer Figures


Problem Figures
44.

| $\infty$ | 8 | 8 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\rightarrow$ | $\infty$ | $\infty$ | 8 | 9 |
|  | Answer Figures |  |  |  |
| 1 | 2 | 3 | 4 | 5 |


Problem Figures
49.

Answer Figures

Problem Figures
50.

| 1 2 3 4 3 2 4 1 4 2 1 3 1 |
| :--- |

## Test-II: Quantitative Aptitude

Directions (Q. 51-55): What will come in place of question mark (?) in the following questions?
51. $(\sqrt{5}-\sqrt{1} 0)^{2+}(\sqrt{2}+5)^{2}=(?)^{3}-22$

1) $\sqrt{2}$
2) 2
3) 16
4) 8
5) None of these
52. $55 \%$ 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. $\sqrt{12^{2} \times 16 \div 24+193+7} \times 5=(\text { ? })^{2}$
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. $68 \%$ of $1288+26 \%$ 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. $6578 \div 67 \times 15=$ ?
x6
1) 200
2) 250
3) 150
4) 100
5) 300

6) 540
7) 760
8) 800
9) 1260
10) 1040
60. $\sqrt{5687} \times \overline{\sqrt{ }} 1245 \div \sqrt{\div} 689=? \div 13$
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. 987587331187123 (?)

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4) 114
5) None of these
62. 125171263401585 (?)
1) 835
2) 815
3) 792
4) 788
5) None of these
63. 121132167226309 (?)
1) 424
2) 413
3) 427
4) 416
5) None of these

Directions (Q. 64-65): In the following number series, only one is wrong. Find out the wrong number.
64. 4543276485248427131036

1) 327
2) 648
3) 521
4) 842
5) 713
65. 72.586113168275491923
1) 86
2) 113
3) 168
4) 275
5) 491

Directions (Q.66-70): In the following questions, two equations numbered I and II are given. You have to solve both the equations and give answer -

1) if $x>y$
2) if $x \geq y$
3) if $x<y$
4) if $x \leq y$
5) if $x=y$ or relationship cannot be established
66. I. $4 x+3 y=(1600)^{1 / 2}$
II. $6 x-5 y=(484)^{1 / 2}$
67. I. $2 x^{2}-(4 \div \sqrt{13}) x+2 \sqrt{13}=0$
II. $10 y^{2}-(18+5 \sqrt{13}) y \div 9 \sqrt{13}=0$
68. I. $\left(6 x^{2}+17\right)-\left(3 x^{2}+20\right)=0$
II. $\left(5 y^{2}-12\right)-\left(9 y^{2}-16\right)=0$
69. I. $(169)^{1 / 2} x+\sqrt{28} 9=134$
II. $(361)^{1 / 2} y^{2}-270=1269$
70. I. $821 x^{2}-757 x^{2}=256$
II. $\sqrt{19} 6 y^{3}-12 y^{3}=16$
71. Rita's present age is four times her daughter's present age and two-thirds of her mother's present age. The total of the present ages of all of them is 154 years. What is the difference between Rita's and her mohter's present age?

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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 uniformaly and covered a distance of 1040 km in 13 hours. What is the average speed of the truck and the train together?
1) $75 \mathrm{Km} / \mathrm{hr}$
2) $60 \mathrm{Km} / \mathrm{hr}$
3) $48 \mathrm{~km} / \mathrm{hr}$
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 twise 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 40 cm ?
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) $1.8 \mathrm{~m} / \mathrm{s}$
2) $1.4 \mathrm{~m} / \mathrm{s}$

## AffairsCloud.Com <br> 3) $1.6 \mathrm{~m} / \mathrm{s}$ <br> 4) $2 \mathrm{~m} / \mathrm{s}$ <br> 5) $1.2 \mathrm{~m} / \mathrm{s}$

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 ques-

 tions.Percentagewise distribution of teachers in six different universities.

Total number of teachers $=\mathbf{6 4 0 0}$

## 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

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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 $\square$ | 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
87. What was the approximate percentage decrease in the number of cars of basic model produced by Company B in the year 2009 as compared to the Previous year?
1) 15
2) 20
3) 10
4) 80
5) 85
88. What was the average number of cars of premium model produced by Company A over all the years together?
1) 9000
2) 8000
3) 6000
4) 48000
5) None of these
89. In which year was the difference between the basic model and premium model of cars produced by Company E the second highest?
1) 2010
2) 2006
3) 2007
4) 2008
5) 2009
90. In which Company did the production of cars of premium model consistently increase from the year 2006 to the year 2010 ?
1) Both $C$ and $E$
2) Both $C$ and $D$
3) C only
4) D only
5) E only

Directions (Q. 91-95) : Study the following graph carefully to answer the questions that follow:

Monthly income (` in thousands) of three different persons in six diffrent years


