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SPARDHAGURU SIKLL EDGE APTITUDE ACADEMY

IBPS RRB CLERK MODEL PAPER

Banking | SSC | NTPC

Questions designed strictly according to the IBPS RRB Clerk (Office Assistant) examination pattern.

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IBPS RRB Clerk Prelims

Model Paper Set 09

Time Allowed: 45 Minutes,

Total Questions: 80

Date: _____

Student Details

Name: _____

No of Questions Attempt: _____

Start Time: _____

End Time: _____

Test Rules & Scoring

Scoring Scheme: +1 for correct answers | **-0.25** for incorrect responses.

Writing Tool: Blue or black ballpoint pen only.

Test Discipline: Start only upon the invigilator's signal. Zero tolerance for malpractice.

Handover: Submit your response sheet to the invigilator before exiting the hall.

Office Use Only

Score Obtained: /

Invigilator Signature:

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SECTION I: SIMPLIFICATION (Questions 1 to 5)

Directions (Q.1 - Q.5): What value will come in place of the question mark (?) in the given questions?

Question 1

$\sqrt[3]{17576} \times \sqrt{1024} \div 16 + 45\%$ of $1200 = ? - 325$

A) 877 B) 895 C) 912
D) 852 E) 927

Question 2

$(18.5)^2 - (11.5)^2 + \sqrt{1444} \times 15 = ? \div 4$

A) 3120 B) 1920 C) 1760
D) 1680 E) 1810

Question 3

$5\frac{3}{4} + 7\frac{2}{3} - 3\frac{1}{6} + 2\frac{1}{2} = ? + \frac{5}{12}$

A) 12 B) 12.33 C) 14
D) 12.5 E) 13.5

Question 4

78% of 450 + 42% of $550 - ? = 312$

A) 270 B) 285 C) 261
D) 297 E) 249

Question 5

$\sqrt{3136} \times \sqrt[3]{2197} \div 14 + 18^2 = ? + 215$

A) 161 B) 21 C) 185
D) 224 E) 205

SECTION II: NUMBER SERIES (Questions 6 to 10)

Directions (Q.6 - Q.10): Find the wrong number or the missing number in the given series.

Question 6 (Missing Number)

14,21,35,56,84, ?

A) 115 B) 119 C) 126
D) 132 E) 140

Question 7 (Wrong Number)

5,11,24,51,106,218

A) 11 B) 24 C) 51
D) 106 E) 218

Question 8 (Missing Number)

4,6,12,30,90, ?

A) 315 B) 270 C) 360
D) 225 E) 310

Question 9 (Wrong Number)

120,132,156,192,240,302

A) 132 B) 156 C) 192
D) 240 E) 302

Question 10 (Missing Number)

7,13,25,49,97, ?

A) 185 B) 193 C) 189
D) 197 E) 201

SECTION III: QUADRATIC EQUATIONS (Questions 11 to 15)

Directions (Q.11 - Q.15): In each of the following questions, two equations numbered I and II are given. You have to solve both equations and establish the relation between x and y. Give answer:

A) if $x > y$
B) if $x \geq y$
C) if $x < y$
D) if $x \leq y$
E) if $x = y$ or relationship between x and y cannot be established

Question 11

I. $x^2 - 17x + 72 = 0$
II. $y^2 - 15y + 56 = 0$

A) D B) E C) C
D) B E) A

Question 12

I. $2x^2 + 11x + 12 = 0$
II. $2y^2 + 17y + 35 = 0$

A) D B) E C) C
D) B E) A

Question 13

I. $x^2 = 196$
II. $y^2 - 26y + 169 = 0$

A) D B) E C) C
D) B E) A

Question 14

I. $3x^2 + 10x + 8 = 0$
II. $2y^2 + 13y + 20 = 0$

A) D B) E C) C
D) B E) A

Question 15

I. $x^2 - 7x - 18 = 0$
II. $y^2 + 11y + 24 = 0$

A) D B) E C) C
D) B E) A

SECTION IV: CASELET DATA INTERPRETATION (Questions 16 to 25)

Set 1 (Questions 16 to 20)

Directions: Read the passage carefully and answer the questions.

In an organization, there are a total of 1200 employees working across three departments: HR, IT, and Finance. The ratio of male to female employees in the organization is 7: 5.

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35% of the total employees work in the IT department.

Out of the total IT employees, $\frac{3}{7}$ are females.

The number of HR employees is 25% of the total employees.

The ratio of male to female employees in the HR department is 3: 2.

The remaining employees work in the Finance department, where the number of males is equal to the number of females.

Question 16

What is the total number of female employees in the IT department?

A) 180 B) 150 C) 210
D) 240 E) 175

Question 17

Find the difference between the number of male employees in the IT department and the number of female employees in the Finance department.

A) 30 B) 45 C) 60
D) 75 E) 90

Question 18

The number of male employees in the HR department is what percentage of the total number of employees in the Finance department?

A) 60% B) 75% C) 80%
D) 90% E) 120%

Question 19

What is the average number of female employees across all three departments?

A) 150 B) 175 C) 200
D) 225 E) 250

Question 20

If 20% of the IT male employees and 10% of the Finance female employees are transferred to the HR department, what will be the new total number of employees in the HR department?

A) 325 B) 345 C) 360
D) 380 E) 395

Set 2 (Questions 21 to 25)

Directions: Read the passage carefully and answer the questions.

Three shops — A, B, and C — sold two types of items: Pens and Notebooks.

Total items sold by Shop A is 450, out of which 40% are pens.

The number of notebooks sold by Shop B is 25% more than the number of notebooks sold by Shop A.

Total items sold by Shop B is 520.

Shop C sold pens which are 20% more than the pens sold by Shop A, and notebooks sold by Shop C are equal to the average of notebooks sold by Shop A and Shop B.

Question 21

What is the total number of notebooks sold by Shop A?

A) 270 B) 240 C) 250
D) 280 E) 260

Question 22

Find the total number of items sold by Shop C.

A) 498 B) 512 C) 486
D) 504 E) 522

Question 23

What is the ratio of pens sold by Shop B to notebooks sold by Shop C?

A) 11: 13 B) 10: 13 C) 12: 13
D) 9: 11 E) 13: 15

Question 24

If the selling price of each pen is Rs. 15 and each notebook is Rs. 25, find the total revenue generated by Shop A.

A) Rs. 9,450 B) Rs. 9,850 C) Rs. 10,150
D) Rs. 10,350 E) Rs. 10,800

Question 25

The notebooks sold by Shop B are what percentage of the total items sold by Shop A and Shop B combined?

A) 31.25% B) 28.50% C) 35.00%
D) 32.40% E) 29.75%

SECTION V: ARITHMETIC OPERATIONS (Questions 26 to 40)

Question 26

A vessel contains a mixture of milk and water in the ratio 5: 3. If 24 liters of the mixture is replaced with 24 liters of pure milk, the new ratio of milk to water becomes 7: 3. Find the initial quantity of mixture in the vessel.

A) 120 liters B) 160 liters C) 180 liters
D) 200 liters E) 240 liters

Question 27

A man invested a sum of Rs. P at 15% per annum simple interest for 3 years. Had he invested the same sum at 20% per annum compound interest (compounded annually) for 2 years, the difference in interest earned would have been Rs. 180. Find the value of P.

A) Rs. 12,000 B) Rs. 15,000 C) Rs. 18,000

D) Rs. 20,000 E) Rs. 24,000

Question 28

Pipe A and Pipe B can fill an empty cistern in 12 hours and 16 hours respectively, while Pipe C can empty the full cistern in 24 hours. All three pipes are opened together, but after 4 hours, Pipe C is closed. In how many more hours will the cistern be completely filled?

A) 4 hours B) 5 hours C) 6 hours
D) 5 hours E) 4 hours

Question 29

The present age of A is 1.5 times the present age of B. Four years hence, the ratio of the age of A to that of B will be 7: 5. Find the sum of their present ages.

A) 36 years B) 40 years C) 45 years
D) 50 years E) 60 years

Question 30

A shopkeeper marks an article 40% above its cost price and gives two successive discounts of 10% and 15% respectively. If he earns a profit of Rs. 156, find the cost price of the article.

A) Rs. 2,000 B) Rs. 2,400 C) Rs. 2,500
D) Rs. 3,000 E) Rs. 3,500

Question 31

A boat can travel 48 km upstream and 72 km downstream in 10 hours. Also, it can travel 72 km upstream and 48 km downstream in 11 hours. Find the speed of the stream.

A) 2 km/hr B) 3 km/hr C) 4 km/hr
D) 5 km/hr E) 6 km/hr

Question 32

A and B started a business by investing capitals in the ratio 3: 5. After 6 months, C joined them by investing an amount equal to $\frac{2}{3}$ of B's capital. If the total annual profit is Rs. 48,000, find C's share in the profit.

A) Rs. 8,275 B) Rs. 9,000 C) Rs. 10,000
D) Rs. 12,000 E) Rs. 15,000

Question 33

In an examination, a student scores 30% marks and fails by 45 marks. Another student scores 42% marks and gets 45 marks more than the passing marks. Find the pass percentage of the examination.

A) 33.33% B) 35% C) 36%
D) 37.5% E) 40%

Question 34

A sum of money becomes 8 times of itself in 3 years at compound interest, compounded annually. In how many years will the same sum become 64 times of itself?

A) 6 years B) 9 years C) 12 years
D) 15 years E) 18 years

Question 35

The average weight of 30 students in a class is 52 kg. If the weight of the teacher is included, the average weight increases by 1 kg. Find the weight of the teacher.

A) 81 kg B) 83 kg C) 85 kg
D) 87 kg E) 89 kg

Question 36

A man covers a certain distance at a speed of 60 km/hr in 4 hours. If he wants to cover the same distance in 3 hours, by what percentage must he increase his speed?

A) 20% B) 25% C) 30%
D) 33.33% E) 40%

Question 37

Two numbers are in the ratio 5: 7. If 9 is subtracted from each, the new ratio becomes 2: 3. Find the original numbers.

A) 35, 49 B) 45, 63 C) 40, 56
D) 50, 70 E) 55, 77

Question 38

A dishonest milkman sells milk at the cost price, but he mixes water in it and gains a profit of 25%. Find the percentage of water in the final mixture.

A) 16.67% B) 20% C) 25%
D) 33.33% E) 40%

Question 39

A person invests Rs. 8,000 at a certain rate of simple interest per annum. After 4 years, the total amount becomes Rs. 11,200. If the rate of interest is increased by 2% per annum, what will be the total amount after the same period?

A) Rs. 11,640 B) Rs. 11,840 C) Rs. 12,000
D) Rs. 12,240 E) Rs. 12,400

Question 40

The perimeter of a rectangular field is 140 m and the difference between its length and breadth is 10 m. Find the area of the field.

A) 1000 m^2 B) 1150 m^2 C) 1200 m^2
D) 1250 m^2 E) 1350 m^2

SECTION I: PUZZLES AND SEATING ARRANGEMENTS (Questions 1 to 20)

Set 1: Floor-Flat Puzzle (Questions 1 to 5)

Directions (Q. 1–5): Read the following information carefully and answer the questions.

Eight persons — A, B, C, D, E, F, G, and H — live in a four-story building. The lowermost floor is numbered 1, and the top floor is numbered 4. Each floor has two flats: Flat-1 and Flat-2, where Flat-1 is to the west of Flat-2. Flat-1 of floor 2 is immediately above Flat-1 of floor 1 and immediately below Flat-1 of floor 3, and so on. G lives on an even-numbered floor in Flat-2. Only one floor is between G and C, and both live in the same numbered flat. A lives immediately above C in different numbered flats, such that A lives to the northeast of C. F lives on an odd-numbered floor to the west of H. B lives on a floor above D. E lives to the west of B.

Question 1

Who among the following lives in Flat-1 of Floor 4?

A) E B) A C) F
D) B E) G

Question 2

On which floor and flat does D live?

A) Floor 1, Flat-1 B) Floor 1, Flat-2
C) Floor 2, Flat-1 D) Floor 2, Flat-2
E) Floor 3, Flat-1

Question 3

Who lives to the immediate east of F?

A) G B) D C) H
D) C E) E

Question 4

Four of the following five are alike in a certain way and hence form a group. Which one does not belong to that group?

A) E B) F C) A
D) C E) D

Question 5

Which of the following statements is true regarding B?

A) B lives in Flat-1 of Floor 4
B) B lives on an odd-numbered floor
C) B lives in the same flat number as H
D) B lives immediately above G
E) B lives on Floor 2

Set 2: Circular Seating Arrangement (Questions 6 to 10)

Directions (Q. 6–10): Read the following information carefully and answer the questions.

8. Ten students A B C D E F G H I and J are sitting in a row facing east. B and F are not sitting on either of the edges. G is sitting to the left of D and H is sitting to the right of J. There are four Persons between E and A. I is to the left of B and F is to the right of D. J is in between A and D and G is in between E and F. There are two people between H and C.

Questions 6 to 10

6. **Who is sitting at the extreme ends of the row?**
   A) E and C B) A and B
   C) G and H D) E and H

7. **Who is sitting third to the right of D?**
   A) J B) A
   C) I D) B

8. **How many persons are sitting between F and B?**
   A) 2 B) 3
   C) 4 D) 5

9. **Which of the following statements is true regarding I's position?**
   A) I is sitting at the extreme right end.
   B) I is sitting between A and B.
   C) I is to the immediate left of A.
   D) There are three persons between I and J.

10. **If all the students are rearranged in reverse alphabetical order from left to right, who will retain their original position?**
   A) D B) F
   C) J D) None of the students

Set 3: Box Puzzle (Questions 11 to 15)

Directions (Q. 11–15): Read the following information carefully and answer the questions.

Seven boxes — J, K, L, M, N, O, and P — are kept one above another in a stack, but not necessarily in the same order.

Box M is placed third from the bottom of the stack. Only two boxes are placed between Box M and Box K. Box N is placed somewhere above Box M. Box P is placed immediately above Box N. As many boxes are placed above Box P as below Box L. Box O is placed below Box J.

Question 11

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Which box is placed at the top of the stack?
A) J B) P C) K
D) N E) O

Question 12

How many boxes are placed between Box K and Box O?
A) One B) Two C) Three
D) Four E) More than four

Question 13

Which box is placed immediately below Box L?
A) M B) O C) J
D) N E) None (L is at bottom)

Question 14

Which of the following statements is correct regarding Box J?
A) J is placed at the bottom
B) J is placed immediately above K
C) J is placed second from the top
D) Two boxes are placed between J and M
E) None of these

Question 15

If Box P is related to Box N and Box K is related to Box J in a certain way, then in the same way Box M is related to which box?
A) L B) O C) P
D) K E) N

Set 4: Scheduling / Day-based Puzzle (Questions 16 to 20)

Directions (Q. 16–20): Read the following information carefully and answer the questions.

Seven friends — Monu, Sonu, Ravi, Amit, Vikas, Puja, and Neha — attend a seminar on seven different days of the same week starting from Monday to Sunday, but not necessarily in the same order.

Amit attends the seminar on Thursday. Only two persons attend between Amit and Monu, and Monu attends before Amit. Sonu attends immediately before Neha. Neither Sonu nor Neha attends on Sunday. The number of persons attending before Monu is equal to the number of persons attending after Vikas. Ravi attends before Puja, but not on Monday.

- Monu attends on Monday and Sonu attends on Tuesday.

Question 16

Who among the following attends the seminar on Monday?
A) Vikas B) Monu C) Sonu
D) Ravi E) Puja

Question 17

How many persons attend the seminar between Ravi and Puja?
A) None B) One C) Two
D) Three E) Four

Question 18

On which day does Neha attend the seminar?
A) Tuesday B) Wednesday C) Friday
D) Saturday E) Sunday

Question 19

Who attends the seminar immediately after Amit?
A) Ravi B) Sonu C) Vikas
D) Neha E) Monu

Question 20

Four of the following five are alike in a certain way based on the arrangement. Which one does not belong to that group?
A) Vikas – Tuesday B) Monu – Thursday
C) Sonu – Wednesday D) Ravi – Saturday
E) Amit – Friday

SECTION II: SYLLOGISM (Questions 21 to 25)

Directions (Q. 21–25): In each of the questions below, statements are given followed by two conclusions I and II. Read all conclusions and decide which follows.
A) If only conclusion I follows
B) If only conclusion II follows
C) If either conclusion I or II follows
D) If neither conclusion I nor II follows
E) If both conclusions I and II follow

Question 21

Statements:
Only a few Red are Blue.
All Blue are Green.
No Green is Yellow.

Conclusions:
I. Some Red are not Yellow.
II. All Blue being Red is a possibility.

A) Option A B) Option B C) Option C
D) Option D E) Option E

Question 22

Statements:

Only Pen are Pencil.
Some Pen are Eraser.
Only a few Eraser are Sharpener.

Conclusions:

I. All Pencil can never be Eraser.
II. Some Sharpener being Pen is a possibility.

A) Option A B) Option B C) Option C
D) Option D E) Option E

Question 23

Statements:

Only a few Apples are Mangoes.
No Mango is Banana.
All Bananas are Grapes.

Conclusions:

I. Some Apples are not Bananas.
II. All Grapes being Mangoes is a possibility.

A) Option A B) Option B C) Option C
D) Option D E) Option E

Question 24

Statements:

Some Cars are Buses.
Only a few Buses are Trucks.
All Trucks are Bikes.

Conclusions:

I. All Buses being Bikes is a possibility.
II. Some Cars are Trucks.

A) Option A B) Option B C) Option C
D) Option D E) Option E

Question 25

Statements:

No Mobile is Laptop.
Only a few Laptops are Computers.
All Computers are Tablets.

Conclusions:

I. Some Tablets are not Mobiles.
II. All Mobiles being Computers is a possibility.

A) Option A B) Option B C) Option C
D) Option D E) Option E

SECTION III: INEQUALITY (Questions 26 to 30)

Directions (Q. 26–30): In each question, relationship between different elements is shown in the statements. The statements are followed by conclusions. Give answer:

A) If only conclusion I follows
B) If only conclusion II follows
C) If either conclusion I or II follows
D) If neither conclusion I nor II follows
E) If both conclusions I and II follow

Question 26

Statements: $P \geq Q > R = S; T < R \geq U$

Conclusions:

I. $P > U$
II. $S > T$

A) Option A B) Option B C) Option C
D) Option D E) Option E

Question 27

Statements: $A \leq B < C; C = D \leq E; E < F$

Conclusions:

I. $A < D$
II. $F > B$

A) Option A B) Option B C) Option C
D) Option D E) Option E

Question 28

Statements: $M > N \geq O = P; Q \leq P > R$

Conclusions:

I. $M > Q$
II. $O > R$

A) Option A B) Option B C) Option C
D) Option D E) Option E

Question 29

Statements: $X \geq Y > Z; Z \geq W = V; V > U$

Conclusions:

I. $X > V$
II. $Z > U$

A) Option A B) Option B C) Option C
D) Option D E) Option E

Question 30

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

Conclusions:

I. $H \geq L$
II. $I < M$

A) Option A B) Option B C) Option C
D) Option D E) Option E

SECTION IV: MISCELLANEOUS (Questions 31 to 40)

Questions 31–33: Coding-Decoding

Directions (Q. 31–33): Study the following information to answer the given questions.

In a certain code language:
"study hard get success" is coded as "ki ma ta pa"
"get high score exam" is coded as "ta fe li ro"
"hard score high rank" is coded as "ma li ro bu"
"study exam rank pass" is coded as "ki fe bu ze"

Question 31

What is the code for "success"?

A) ki B) ma C) ta

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D) pa E) fe

Question 32

What does the code "ro" stand for?

A) score B) high C) Either score or high

D) get E) exam

Question 33

What will be the code for "pass exam"?

A) ze fe B) ki fe C) bu ta

D) ze ma E) ta ro

Questions 34–35: Blood Relations

Directions (Q. 34–35): Study the following information to answer the given questions.

In a family of seven members — P, Q, R, S, T, U, and V there are two married couples. P is the father of Q, who is the brother of R. R is the mother of S. S is married to T, and T is the son-in-law of R. V is the sister of Q.

Question 34

How is P related to S?

A) Father B) Grandfather C) Uncle

D) Brother E) Father-in-law

Question 35

How is Q related to T?

A) Father-in-law

B) Brother-in-law

C) Uncle-in-law / Uncle

D) Father

E) Brother

Questions 36–38: Direction Sense

Directions (Q. 36–38): Study the following information to answer the given questions.

Directions (Q. 36–38): Study the following information to answer the given questions.

Point A is **10m** North of Point B. Point C is **12m** East of Point B. Point D is **15m** North of Point C. Point E is **12m** West of Point D. Point F is **5m** South of Point E.

Question 36

What is the shortest distance between Point B and Point F?

A) 5m B) 10m C) 12m

D) 15m E) 20m

Question 37

In which direction is Point A with respect to Point E?

A) North-East B) South-West C) North-West

D) South-East E) East

Question 38

If Point G is **5m** South of Point A, then what is the direction of Point G with respect to Point C?

A) North-West B) West C) North-East

D) South-West E) East

Questions 39–40: Order & Ranking

Directions (Q. 39–40): Study the following information to answer the given questions.

Directions (Q. 39–40): Study the following information to answer the given questions.

Among six students — U, V, W, X, Y, and Z — each has a different weight. W is heavier than only two students. V is lighter than U but heavier than X. Y is heavier than Z but lighter than W. U is not the heaviest student.

Question 39

Who among the following is the heaviest student?

A) V B) U C) X

D) Z E) W

Question 40

If the third lightest student (W) weighs **58 kg**, who among the following could weigh **62 kg**?

A) Y B) Z C) V

D) X E) Either V or U

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