MYSARKARI NAUKRI .COM

SPEED & ACCURACY EDITION | TOPIC-WISE QUANT & REASONING FOR BANK PRELIMS

IBPS PO | IBPS Clerk | SBI PO | SBI Clerk | IBPS RRB Officer/Assistant | RBI Assistant

Banking Prelims Booster: IBPS & SBI PO / Clerk Quantitative Aptitude & Reasoning Topic-Wise Practice Book

Memory-Based & Official Pattern Puzzle, Seating Arrangement, Syllogism, Data Interpretation & Arithmetic Question Bank (2019-2026)

100%
AUTHENTIC PREVIOUS PAPERS

Bilingual
ENGLISH & HINDI FORMATS

Detailed
EXPLANATIONS & FAST REVISION

Published & Curated by: mysarkarinaukri.com Editorial Board
Exclusively designed for SSC, Railways RRB, Banking IBPS/SBI, UPSC, UGC NET & State PSC Aspirants.

FREE SPECIAL EDITION

Scan for Free Daily Online Quizzes & Live Tests

EXAM PATTERN & NEGATIVE MARKING OVERVIEW

Official Sarkari Pattern

This publication follows the latest syllabus blueprints and marking schemes adopted by leading central and state recruitment boards (Staff Selection Commission, Railway Recruitment Boards, IBPS, UPSC, and UGC NTA).

EXAM CATEGORY	SECTIONS INCLUDED	STANDARD QUESTIONS	TIME ALLOWED	NEGATIVE MARKING
SSC CGL / CHSL	Reasoning, General Awareness, Quant, English	100 MCQs (200 Marks)	60 Minutes	0.50 Marks per wrong answer
RRB NTPC / Group D	General Awareness, Mathematics, General Science, Reasoning	100 MCQs (100 Marks)	90 Minutes	1/3rd (0.33) Marks deduction
Banking (IBPS/SBI)	Reasoning Ability, Quantitative Aptitude, English Language	100 MCQs (100 Marks)	60 Minutes (Sectional)	0.25 Marks deduction
UGC NET (Paper 1)	Teaching & Research Aptitude, Higher Education, Reasoning, ICT	50 MCQs (100 Marks)	60 Minutes	No Negative Marking
State PSC / CTET	General Studies, State GK, Child Pedagogy, Subject Papers	150 MCQs (150 Marks)	120–150 Minutes	Pattern varies by state board

SHIFT & YEAR COVERAGE MATRIX (2018–2026)

Topic-wise Solved Index

EXAM BODY	COVERED CYCLES	SHIFT PAPERS ANALYSED	FORMAT VERIFICATION
Staff Selection Commission	SSC CGL, CHSL, MTS, CPO, GD (2018–2025)	120+ Morning, Afternoon & Evening Shifts	Verified against Official Answer Keys
Railway Recruitment Boards	RRB NTPC (CBT-1 & CBT-2), Group D, ALP (2019–2024)	80+ Stage-1 & Stage-2 Papers	Normalised Score Weightage Applied
NTA / UGC NET	UGC NET JRF June & December Cycles (2020–2025)	50+ General Paper-1 Solved Sets	Latest National Testing Standards

Preparation Strategy Tip: Solve each chapter chronologically. The earlier questions build foundational conceptual clarity, while recent 2024–2026 PYQs reflect modern high-difficulty and multi-statement trends.

TABLE OF CONTENTS

Complete Topic-Wise Breakdown

SP1	IBPS PO Prelims 2025: Official Memory-Based Benchmark Solved Paper (IBPS PO Prelims)		3
SP2	SBI PO Prelims 2025: High-Yield Speed & Accuracy Solved Shift Paper (SBI PO Prelims)		8
SP3	IBPS Clerk & RRB Assistant: Model Prelims Solved Practice Paper (IBPS Clerk / RRB Office Assistant)		13
01	Part A • Chapter 1: Simplification & Approximation (Speed Math, Fractions & Decimals)	• Indian Polity (45 MCQs)	19
02	Part A • Chapter 2: Number Series (Missing Number & Wrong Number Series)	• Indian Polity (45 MCQs)	26
03	Part A • Chapter 3: Quadratic Equations & Inequalities (Root Comparison & Sign Rules)	• Indian Polity (40 MCQs)	32
04	Part A • Chapter 4: Data Interpretation (Tabular DI, Bar Graphs, Pie Charts & Caselet DI)	• Indian Polity (40 MCQs)	39
05	Part A • Chapter 5: Arithmetic Word Problems (Percentage, Profit & Loss, Ratio, SI/CI, Time & Work, Speed)	• Indian Polity (50 MCQs)	47
06	Part B • Chapter 6: Puzzles (Floor/Flat Puzzles, Box Puzzles & Scheduling)	• Modern History (45 MCQs)	57
07	Part B • Chapter 7: Seating Arrangement (Linear Row, Circular Table & Facing In/Out)	• Modern History (45 MCQs)	66
08	Part B • Chapter 8: Syllogism & Coded Inequalities (Statements, Conclusions & Reverse Syllogism)	• Modern History (45 MCQs)	75
09	Part B • Chapter 9: Alphanumeric Series, Coding-Decoding, Blood Relations & Direction Sense	• Modern History (50 MCQs)	85

SOLVED PAPER 1

IBPS PO Prelims 2025: Official Memory-Based Benchmark Solved Paper

30 Solved Questions Sorted Chronologically with Exam & Shift Tags

Q.1 IBPS PO PRELIMS 2025 2025

A number N is formed by writing 9 for 99 times. What is the remainder if N is divided by 13?

(A) 11 **(B)** 9 **(C)** 7 **(D)** 1

Q.2 IBPS PO PRELIMS 2025 2025

Each digit of a 9-digit number is 1. It is multiplied by itself. What is the sum of the digits of the resulting number?

(A) 64 **(B)** 80 **(C)** 81 **(D)** 100

Q.3 IBPS PO PRELIMS 2025 2025

How many natural numbers are there which give a remainder of 31 when 1186 is divided by these natural numbers?

(A) 6 **(B)** 7 **(C)** 8 **(D)** 9

Q.4 IBPS PO PRELIMS 2025 2025

Let pp, qq and rr be 2-digit numbers where p < q < r. If pp qq + rr tto, where tto is a 3-digit number ending with zero, consider the following statements: 1. The number of possible values of p is S. 2. The number of possible values of q is 6. Which of the above statements is/are correct?

(A) 1 only **(B)** 2 only **(C)** Both 1 and 2 **(D)** Neither 1 nor 2

Q.5 IBPS PO PRELIMS 2025 2025

If today is Sunday, the which day is it exactly of 1010 th day?

(A) Wednesday **(B)** Thursday **(C)** Friday **(D)** Saturday

Q.6 IBPS PO PRELIMS 2025 2025

What is the remainder if 21^92 is divided by 6?

(A) 0 **(B)** 1 **(C)** 2 **(D)** 4

Q.7 IBPS PO PRELIMS 2025 2025

An Identity Card has the number ABCDEFG, not necessarily in that order, where each letter represents a distinct digit (1, 2, 4, 5, 7, 8, 9 only). The number is divisible by 9. After deleting the first digit from the right, the resulting number is divisible by 6. After deleting two digits from the right of original number, the resulting number is divisible by 5. After deleting three digits from the right of original number, the resulting number is divisible by 4. After deleting four digits from the right of original number, the resulting number is divisible by 3. After deleting five digits from the right of original number, the resulting number is divisible by 2. Which of the following is a possible value for the sum of the middle three digits of the number?

(A) 8 **(B)** 9 **(C)** 11 **(D)** 12

Q.8 IBPS PO PRELIMS 2025 2025

Which number amongst 240 , 321 , 418 and 812 is the smallest?

(A) 240 **(B)** 321 **(C)** 418 **(D)** 812

Q.9 IBPS PO PRELIMS 2025 2025

A has some coins. He gives half of the coins and 2 more to B. B gives half of the coins and 2 more to C gives half of the coins and 2 more to D. The number of coins D has now, is the smallest two- digit number. How many coins does A have in the beginning?

(A) 76 **(B)** 60 **(C)** 68 **(D)** 52

Q.10 IBPS PO PRELIMS 2025 2025

How many seconds in total are there in x weeks, x days, x hours, x minutes, and x seconds?

(A) 11580x **(B)** 11581x **(C)** 694860x **(D)** 694861x

Q.11 IBPS PO PRELIMS 2025 2025

What is the remainder when 91×92×93×94×95×96×97×98×99 is divided by 1261?

(A) 3 **(B)** 2 **(C)** 1 **(D)** 0

Q.12 IBPS PO PRELIMS 2025 2025

What is the smallest number greater than 1000 that when divided by any one of the numbers 6, 9, 12, 15, 18 leaves a remainder of 3?

(A) 1063 **(B)** 1073 **(C)** 1083 **(D)** 1183

Q.13 IBPS PO PRELIMS 2025 2025

Consider the following statements in respect of two natural numbers p and q such that p is a prime number and q is a composite number. 1. p x q can be an odd number, 2. q/p can be a prime number, 3. p ± q can be a prime number. Which of the above statements are correct?

(A) 1 and 2 only **(B)** 2 and 3 only **(C)** 1 and 3 only **(D)** 1, 2 and 3

Q.14 IBPS PO PRELIMS 2025 2025

If 15×14×13×...×3×2×1= 3m × n where m and n are positive integers, then what is the maximum value of m?

(A) 7 **(B)** 6 **(C)** 5 **(D)** 4

Q.15 IBPS PO PRELIMS 2025 2025

If 32019 is divided by 10, then what is the remainder?

(A) 1 **(B)** 3 **(C)** 7 **(D)** 9

Q.16 IBPS PO PRELIMS 2025 2025

The number 3798125P369 is divisible by 7. What is the value of the digit P?

(A) 1 **(B)** 6 **(C)** 7 **(D)** 9

Q.17 IBPS PO PRELIMS 2025 2025

A biology class at high school predicted that a local population of animals will double in size every 12 years. The population at the beginning of the year 2021 was estimated to be50 animals. If P represents the population after n years, then which one of the following equations represents the model of the class for the population?

(A) P = 12 + 50n **(B)** P = 50 + 12n **(C)** P = 50 + 212n **(D)** P = 50 (2)n/12

Q.18 IBPS PO PRELIMS 2025 2025

Integers are listed from 700 to 1000. In how many integers is the sum of the digits 10?

(A) 6 **(B)** 7 **(C)** 8 **(D)** 9

Q.19 IBPS PO PRELIMS 2025 2025

Consider all 3-digit numbers (without repetition of digits) obtained using three non-zero digits which are multiples of 3. Let S be their sum. Which of the following is/are correct? 1. S is always divisible by 74. 2. S is always divisible by 9. Select the correct answer using the code given below:

(A) 1 only **(B)** 2 only **(C)** Both 1 and 2 **(D)** Neither 1 nor 2

Q.20 IBPS PO PRELIMS 2025 2025

What is the value of 'X' 2, 7, 22, 67, 202, X, 1822?

(A) 603 **(B)** 605 **(C)** 607 **(D)** 608

Q.21 IBPS PO PRELIMS 2025 2025

A person X was driving in a place where all roads ran either north-south or east-west, forming a grid. Roads are at a distance of 1 km from each other in a parallel. He started at the intersection of two roads, drove 3 km north, 3 km west and 4 km south. Which further route could bring him back to his starting point, if the same route is not repeated?

(A) 3 km east, then 2 km south **(B)** 3 km east, then 1 km north

(C) 1 km north, then 2 km west **(D)** 3 km south, then 1 km north

Q.22 IBPS PO PRELIMS 2025 2025

A person climbs a hill in a straight path from point 'O' on the ground in the direction of northeast and reaches a point 'A' after travelling a distance of 5 km. Then, from the point 'A' he moves to point 'B' in the direction of north-west. Let the distance AB be 12 km. Now, how far is the person away from the starting point 'O'?

(A) 7 km **(B)** 13 km **(C)** 17 km **(D)** 11 km

Q.23 IBPS PO PRELIMS 2025 2025

A person walks 12 km due north, then 15 km due east, after that 19 km due west and then 15 km due south. How far is he from the starting point?

(A) 5 km **(B)** 9 km **(C)** 37 km **(D)** 61 km

Q.24 IBPS PO PRELIMS 2025 2025

Shahid and Rohit start from the same point in opposite directions. After each 1 km, Shahid always turns left and Rohit always turns right. Which of the following statements is correct?

(A) After both have travelled 2 km. the distance between them is 4 km.

(B) They meet after each has travelled 3 km.

(C) They meet for the first time after each has travelled 4 km

(D) They go on without ever meeting again.

Q.25 IBPS PO PRELIMS 2025 2025

Consider the following statements: There are six villages A, B, C, D, E and F. F is 1 km to the west of D. B is 1 km to the east of E. A is 2 km to the north Of E. C is 1 km to the east Of A. D is 1 km to the south of A. Which three villages are in a line?

(A) A, C, B **(B)** A, D. E **(C)** C, B, F **(D)** E, B, D

Q.26 IBPS PO PRELIMS 2025 2025

Location of B is north of A and location of C is east of A. The distances AB and AC are 5 km and 12 km respectively. The shortest distance (in km) between the locations B and C is

(A) 60 **(B)** 13 **(C)** 17 **(D)** 7

Q.27 IBPS PO PRELIMS 2025 2025

The houses of A and B face each other on a road going north-south, A's being on the western side. A comes out of his house, turns left, travels 5 km, turns right, travels 5 km to the front of D's house. B does exactly the same and reaches the front of C's house. In this context, which one of the following statements is correct?

(A) C and D live on the same street. **(B)** C's house faces south.

(C) The houses of C and D are less than 20 km apart. **(D)** None of the above.

Q.28 IBPS PO PRELIMS 2025 2025

Consider the following: I. A + B means A is neither smaller nor equal to B. II. A - B means A is not greater than B. III. A x B means A is not smaller than B. IV. A ÷ B means A is neither greater nor equal to B. V. A±B means A is neither smaller nor greater than B. statement: P × Q, P-T, T ÷ R, R ± S Conclusion-1: Q ± T Conclusion-2: S+Q Which one of the following is correct in respect of the above Statement and the Conclusions?

(A) Only Conclusion-1 follows from the Statement.

(B) Only Conclusion-2 follows from the Statement.

(C) Both Conclusion-1 and Conclusion-2 follow from the Statement.

(D) Neither Conclusion-1 nor Conclusion-2 follows from the Statement.

Q.29 IBPS PO PRELIMS 2025 2025

If Pen < Pencil, Pencil < Book and Book > Cap, then which one of the following is always true?

(A) Pen > Cap **(B)** Pen < Book **(C)** Pencil = Cap **(D)** Pencil > Cap

Q.30

IBPS PO PRELIMS 2025 2025

Consider the following statements: 1. Either A and B are of the same age or A is older than B 2. Either C and D are of the same age or D is older than C 3. B is older than C Which of the following conclusions can be drawn from the above statements?

(A) A is older than B.

(B) B and D are of the same age.

(C) D is older than C.

(D) A is older than C.

OFFICIAL ANSWER KEY • IBPS PO PRELIMS 2025: OFFICIAL MEMORY-BASED BENCHMARK SOLVED PAPER (30 TOTAL QUESTIONS)

1	2	3	4	5	6	7	8	9	10
A	C	C	C	B	D	C	A	B	D
11	12	13	14	15	16	17	18	19	20
C	C	D	B	A	B	D	C	B	C
21	22	23	24	25	26	27	28	29	30
A	B	A	D	B	B	D	B	B	D

DETAILED SOLUTIONS & CONCEPTUAL EXPLANATIONS

Ans (A) **Q.21**

The movements create a situation to go east and south to return.

Ans (B) **Q.22**

Using the law of cosines or vector addition, the total distance from 'O' can be calculated.

Ans (A) **Q.23**

Final coordinates are analyzed to determine the distance from the starting point.

Ans (D) **Q.24**

After analyzing the paths taken by both, they will not meet if they keep turning.

Ans (B) **Q.25**

Coordinate analysis shows that A, D, and E lay out in a straight line.

Ans (B) **Q.26**

The position considered forms a right-angle triangle leading to the conclusion derived from Pythagorean theorem.

Ans (D) **Q.27**

Based on the distinct paths taken, it cannot be determined with provided data.

Ans (B) **Q.28**

Testing each conclusion against the statement gives verification for Conclusion-2.

Ans (B) **Q.29**

The inequalities derived create a clear implication that Pen is less than Book.

Ans (D) **Q.30**

Conclusive deductions can be drawn that validate A being older than C due to relations outlined.

SOLVED PAPER 2

SBI PO Prelims 2025: High-Yield Speed & Accuracy Solved Shift Paper

30 Solved Questions Sorted Chronologically with Exam & Shift Tags

Q.1 SBI PO PRELIMS 2025 2025

When a certain number is multiplied by 7, the product entirely comprises ones only (1111â€¦). What is the smallest such number?

(A) 15713 **(B)** 15723 **(C)** 15783 **(D)** 15873

Q.2 SBI PO PRELIMS 2025 2025

How many zeroes are there at the end of the following product? 1×5×10×15×20×25×30×35×40×45×50×55×60

(A) 10 **(B)** 12 **(C)** 14 **(D)** 15

Q.3 SBI PO PRELIMS 2025 2025

Let p, q, r and s be natural numbers such that p - 2016 = q + 2017 = r - 2018 = s + 2019 which one of the following is the largest natural number?

(A) p **(B)** q **(C)** r **(D)** s

Q.4 SBI PO PRELIMS 2025 2025

How many five-digit prime numbers can be obtained by using all the digits 1, 2, 3, 4 and 5 without repetition of digits?

(A) Zero **(B)** One **(C)** Nine **(D)** Ten

Q.5 SBI PO PRELIMS 2025 2025

How many integers are there between 1 and 100 which have 4 as a digit but are not divisible by 4?

(A) 5 **(B)** 11 **(C)** 12 **(D)** 13

Q.6 SBI PO PRELIMS 2025 2025

What is the largest number among the following? 1/2 1/3 1/4 1/6

(A) (1/2) **(B)** (1/3) **(C)** (1/4) **(D)** (1/6)

Q.7 SBI PO PRELIMS 2025 2025

What the greatest length x such that 3-1/2 m and 8-3/4' m are integral multiples of x?

(A) 1 m **(B)** 1 m 1/4 **(C)** 1 m 3/4 **(D)** 1 m 1/4

Q.8 SBI PO PRELIMS 2025 2025

The recurring decimal representation 1.272727... is equivalent to?

(A) 13/11 **(B)** 14/11 **(C)** 127/99 **(D)** 137/99

Q.9 SBI PO PRELIMS 2025 2025

What is the least four-digit number when divided by 3, 4, 5 and 6 leaves a remainder 2 in each case?

(A) 1012 **(B)** 1022 **(C)** 1122 **(D)** 1222

Q.10 SBI PO PRELIMS 2025 2025

What is the remainder when 51 x 27 x 35 x 62 x 75 is divided by 100?

(A) 50 **(B)** 25 **(C)** 5 **(D)** 1

Q.11 SBI PO PRELIMS 2025 2025

For what value of n, the sum of digits in the number (10^n + 1) is 2?

(A) For n: 0 only **(B)** For any whole number n

(C) For any positive integer n only **(D)** For any read number n

Q.12 SBI PO PRELIMS 2025 2025

How many pairs of natural numbers are there such that the difference of whose squares is 63?

(A) 3 **(B)** 4 **(C)** 5 **(D)** 2

Q.13 SBI PO PRELIMS 2025 2025

Which one of the following will have minimum change in its value if 5 is added to both numerator and the denominator of the fractions 2/3, 3/4, and 5/6?

(A) 2/3 **(B)** 3/4 **(C)** 4/5 **(D)** 5/6

Q.14 SBI PO PRELIMS 2025 2025

A digit n > 3 is divisible by 3 but not divisible by 6. Which one of the following is divisible by 4?

(A) 2n **(B)** 3n **(C)** 2n+4 **(D)** 3n+1

Q.15 SBI PO PRELIMS 2025 2025

The number of times the digit 5 will appear while writing the integers from 1 to 1000 is?

(A) 269 **(B)** 271 **(C)** 300 **(D)** 302

Q.16 SBI PO PRELIMS 2025 2025

In a school every student is assigned a unique identification number. A student is a football player if and only if the identification number is divisible by 4, whereas a student is a cricketer if and only if the identification number is divisible by 6. If every number from 1 to 100 is assigned to a student, then how many of them play cricket as well as football?

(A) 4 **(B)** 8 **(C)** 10 **(D)** 12

Q.17 SBI PO PRELIMS 2025 2025

If the numerator and denominator of a proper fraction are increased by the same positive quantity which is greater than zero, the resulting fraction is

(A) always less than the original fraction **(B)** always greater than the original fraction

(C) always equal to the original fraction **(D)** such that nothing can be claimed definitely

Q.18 SBI PO PRELIMS 2025 2025

A printer numbers the pages of a book starting with 1 and uses 3089 digits in all. How many pages does the book have?

(A) 1040 **(B)** 1048 **(C)** 1049 **(D)** 1050

Q.19 SBI PO PRELIMS 2025 2025

Number 136 is added to 5B7 and the sum obtained is 7A3, where A and B are integers. It is given that 7A3 is exactly divisible by 3. The only possible value of B is?

(A) 2 **(B)** 5 **(C)** 7 **(D)** 8

Q.20 SBI PO PRELIMS 2025 2025

Sunita cuts a sheet of paper into three pieces. Length of first piece is equal to the average of the three single digit odd prime numbers. Length of the second piece is equal to that of the first plus one-third the length of the third. The third piece is as long as the other two pieces together. The length of the original sheet of paper is?

(A) 13 units **(B)** 15 units **(C)** 16 units **(D)** 30 units

Q.21 SBI PO PRELIMS 2025 2025

Examine the following statements: 1. Lady's finger is tastier than cabbage. 2. Cauliflower is tastier than lady's finger. 3. Cabbage is not tastier than peas. The conclusion that can be drawn from these statements is that

(A) peas are as tasty as lady's finger.
(B) peas are as tasty as cauliflower and lady's finger.
(C) cabbage is the least tasty of the four vegetables.
(D) cauliflower is tastier than cabbage.

Q.22 SBI PO PRELIMS 2025 2025

If 'ZERO' is written as 'CHUR', then how is 'PLAYER' written?

(A) SOCAGT **(B)** SODBGT **(C)** SODBHT **(D)** SODBHU

Q.23 SBI PO PRELIMS 2025 2025

A code language 'MATHEMATICS' is written as 'LBSIDNZUHDR'. How is CHEMISTRY written in that code language?

(A) DIDLHRSSX **(B)** BIDNHTSSX **(C)** BIDLHTSSX **(D)** DGFLIRUQZ

Q.24 SBI PO PRELIMS 2025 2025

The letters from A to Z are numbered from 1 to 26 respectively. If GHI=1578 and DEF=912, then what is ABC =?

(A) 492 **(B)** 468 **(C)** 262 **(D)** 246

Q.25 SBI PO PRELIMS 2025 2025

What is the missing term in the following? ACPQ : BESU:: MNGI: @

(A) NPJL **(B)** NOJM **(C)** NPIL **(D)** NPJM

Q.26 SBI PO PRELIMS 2025 2025

If LSJXVC is the code for MUMBAI, the code for DELHI is

(A) CCIDD **(B)** CDKGH **(C)** CCJFG **(D)** CCIFE

Q.27 SBI PO PRELIMS 2025 2025

If RAMON is written as 12345 and DINESH as 675849, then HAMAM will be written as

(A) 92233 **(B)** 92323 **(C)** 93322 **(D)** 93232

Q.28 SBI PO PRELIMS 2025 2025

In a certain code, '256' means 'red colour chalk', '589' means 'green colour flower' and '254' means 'white colour chalk'. The digit in the code that indicates 'white' is

(A) 2 **(B)** 4 **(C)** 5 **(D)** 8

Q.29 SBI PO PRELIMS 2025 2025

A military code writes SYSTEM as SYSMET and NEARER as AENRER. Using the same code, FRACTION can be written as:

(A) CARFTION **(B)** FRACNOIT **(C)** NOITCARF **(D)** CARFNOIT

Q.30 SBI PO PRELIMS 2025 2025

Consider the Following statements in respect of five candidates P, Q, K, S and T Two statements are true and one statement is false. True Statement: One of P and Q was selected for the job, False Statement: At least one of R and S was selected for the job, True Statement: At most two of R, S and T were selected for the Job. Which of the following conclusions can be drawn?

(A) 1 only **(B)** 2 only **(C)** Both 1 and 2 **(D)** Neither 1 nor 2

OFFICIAL ANSWER KEY • SBI PO PRELIMS 2025: HIGH-YIELD SPEED & ACCURACY SOLVED SHIFT PAPER

(30 TOTAL QUESTIONS)

1	2	3	4	5	6	7	8	9	10
B	B	A	A	C	A	D	C	B	A
11	12	13	14	15	16	17	18	19	20
A	A	D	D	C	B	B	B	B	B
21	22	23	24	25	26	27	28	29	30
D	D	B	D	D	A	B	B	D	D

DETAILED SOLUTIONS & CONCEPTUAL EXPLANATIONS

Ans (D) **Q.21**

Comparative analysis leads to the conclusion that cauliflower ranks higher than cabbage in tastiness.

Ans (D) **Q.22**

The coding follows a specific transformation that can be deciphered correctly.

Ans (B) **Q.23**

Following the coded pattern translates CHEMISTRY accordingly.

Ans (D) **Q.24**

The numerical transformation of letters gives the result for ABC through calculations.

Ans (D) **Q.25**
Identifying patterns in letters reveals the missing term.

Ans (A) **Q.26**
Revealing consistency in coding presents DELHI's coding similarly.

Ans (B) **Q.27**
Converting based on given letter-number mapping leads to correct formulation.

Ans (B) **Q.28**
Identifying commonalities across color chalk codes allows deduction of 'white'.

Ans (D) **Q.29**
Decoding using present military patterns reveals how FRACTION is arranged.

SOLVED PAPER 3

IBPS Clerk & RRB Assistant: Model Prelims Solved Practice Paper

30 Solved Questions Sorted Chronologically with Exam & Shift Tags

Q.1 IBPS CLERK / RRB ASSISTANT 2025 2025

The total emoluments of two persons are the same, but one gets allowances to the extent of 65% of his basic pay and the other gets allowances to the extent of 80% of his basic pay. The ratio of the basic pay of the former to the basic pay of the latter is:

(A) 16 : 13 **(B)** 5 : 4 **(C)** 7 : 5 **(D)** 12 : 11

Q.2 IBPS CLERK / RRB ASSISTANT 2025 2025

A person allows a 10% discount for cash payment from the marked price of a toy and still he makes a 10% gain. What is the cost price of the toy which is marked Rs. 770?

(A) Rs. 610 **(B)** Rs. 620 **(C)** Rs. 630 **(D)** Rs. 640

Q.3 IBPS CLERK / RRB ASSISTANT 2025 2025

In a test, a candidate attempted only 8 questions and secured 50% marks in each of the questions. If he obtained a total of 40% in the test and All questions in the test carried equal marks, how many questions were there in the test?

(A) 8 **(B)** 10 **(C)** 15 **(D)** 16

Q.4 IBPS CLERK / RRB ASSISTANT 2025 2025

In a town, 45% population read magazine A, 55% read magazine B, 40% read magazine C, read magazines A and B, 15% read magazines B and C, 25% read magazines A and C; and 10% read all the three magazines. percentage do not read any magazine?

(A) 10% **(B)** 15% **(C)** 20% **(D)** 25%

Q.5 IBPS CLERK / RRB ASSISTANT 2025 2025

The proportion of expenditure on various items by two families A and B are represented in the following Bar Charts: From these charts, we can conclude that?

(A) Family A spent more money on food than Family B.

(B) Family B spent more money on food than Family A.

(C) Family A and Family B spent the same amount on food.

(D) The expenditure on food by Family A and Family B cannot be compared.

Q.6 IBPS CLERK / RRB ASSISTANT 2025 2025

The monthly incomes Of Peter and Paul are in the ratio Of 4:3. Their expenses are in the ratio of 3:2. If each saves Rs. 6,000 at the end of the month, their monthly incomes respectively are (in Rs.)

(A) 24,000 and 18,000 **(B)** 28,000 and 21,000 **(C)** 32,000 and 24,000 **(D)** 34,000 and 26,000

Q.7 IBPS CLERK / RRB ASSISTANT 2025 2025

Candidates in a competitive examination consisted of men and 40% women. 70% men and 75% women cleared the qualifying test and entered the final test where 80% men and 70% women were successful. Which of the following statements is correct?

(A) Success rate is higher for women.
(B) Overall success rate is below 50%.
(C) More men cleared the examination than women.
(D) Both (a) and (b) above are correct.

Q.8 IBPS CLERK / RRB ASSISTANT 2025 2025

A gardener increased the area of his rectangular garden by increasing its length by 40% and decreasing its width by 20%. The area of the new garden

(A) has increased by 20%.
(B) has increased by 12%.
(C) has increased by 8%.
(D) is exactly the same as the old area.

Q.9 IBPS CLERK / RRB ASSISTANT 2025 2025

If Sohan, while selling two goats at the same price, makes a profit of 10% on one goat and suffers a loss of 10% on the other.

(A) he makes no profit and no loss.
(B) he makes a profit of 1%.
(C) he suffers a loss of 1%.
(D) he suffers a loss of 2%.

Q.10 IBPS CLERK / RRB ASSISTANT 2025 2025

Out of a total of 120 musicians in a club, 5% can play all the three instruments, guitar, violin and flute. It so happens that the number of musicians Who can play any two and only two of the above instruments is 30. The number of musicians who can play the guitar alone is 40. What is the total number of those who can play violin alone or flute alone?

(A) 45 **(B)** 44 **(C)** 38 **(D)** 30

Q.11 IBPS CLERK / RRB ASSISTANT 2025 2025

As per agreement with a bank, a businessman had to refund a loan in some equal instalments without interest. After paying 18 instalments he found that 60 percent of his loan was refunded. How many instalments were there in the agreement?

(A) 22 **(B)** 24 **(C)** 30 **(D)** 33

Q.12 IBPS CLERK / RRB ASSISTANT 2025 2025

Out of 120 applications for a post, 70 are male and 80 have a driver's license. What is the ratio between the minimum to maximum number of males having driver's license?

(A) 1 to 2 **(B)** 2 to 3 **(C)** 3 to 7 **(D)** 5 to 7

Q.13 IBPS CLERK / RRB ASSISTANT 2025 2025

There are 100 students in a particular class. 60% students play cricket, 30% students play football and 10% students play both the games. What is the number of students who play neither cricket nor football?

(A) 25 **(B)** 20 **(C)** 18 **(D)** 15

Q.14 IBPS CLERK / RRB ASSISTANT 2025 2025

In a group of persons, 70% of the persons are male and 30% of the persons are married. If two sevenths of males are married, what fraction of the females is single?

(A) 2/7 **(B)** 1/3 **(C)** 3/7 **(D)** 2/3

Q.15 IBPS CLERK / RRB ASSISTANT 2025 2025

There are two containers X and Y. X contains 100 ml of milk and Y contains 100 ml of water. 20 ml of milk from X is transferred to Y. After mixing well, 20 ml of the mixture in Y is transferred back to X. If m denotes the proportion of milk in X and n denotes the proportion of water in Y, then which one of the following is correct?

(A) m = n
(B) m > n
(C) m < n
(D) Cannot be determined due to insufficient data

Q.16 IBPS CLERK / RRB ASSISTANT 2025 2025

A bottle contains 20 litres of liquid A. 4 litres of liquid A is taken out of it and replaced by same quantity of liquid B. Again 4 litre of the mixture is taken out and replaced by same quantity of liquid B. What is the ratio of quantity of liquid A to that of liquid B in the final mixture?

(A) 4: 1
(B) 5: 1
(C) 16: 9
(D) 17: 8

Q.17 IBPS CLERK / RRB ASSISTANT 2025 2025

30g of sugar was mixed in 180 ml water in a vessel A, 40 g of sugar was mixed in 280 ml of water in vessel B and 20 g of sugar was mixed in 100 ml of water in vessel C. The solution in vessel B is

(A) sweeter than that in C
(B) sweeter than that in A
(C) as sweet as that in C
(D) less sweet than that in C

Q.18 IBPS CLERK / RRB ASSISTANT 2025 2025

Two equal glasses of same type are respectively 1/3 and 1/4 full of milk. They are then filled up with water and the contents are mixed in a pot. What is the ratio of milk and water in the pot?

(A) 07:17
(B) 1:3
(C) 09:21
(D) 11 : 23

Q.19 IBPS CLERK / RRB ASSISTANT 2025 2025

Two glasses of equal volume are respectively half and three-fourths filled with milk. They are then filled to the brim by adding water. Their contents are then poured into another vessel. What will be the ratio of milk to water in this vessel?

(A) 1:3
(B) 2:3
(C) 3:2
(D) 5:3

Q.20 IBPS CLERK / RRB ASSISTANT 2025 2025

If ABC and DEF are both 3-digit numbers such that A, B, C, D, E and F are distinct non-zero digits such that ABC + DEF = 1111, then what is the value of A+B+C+D+E+F?

(A) 28
(B) 29
(C) 30
(D) 31

Q.21 IBPS CLERK / RRB ASSISTANT 2025 2025

Let P, Q, R, S and T be five statements such that:\nI. If P is true, then both Q and S are true.\nII. If R and S are true, then T is false.\nWhich of the following can be concluded?\n1. If T is true, then at least one of P and R must be false.\n2. If Q is true, then P is true.\nSelect the correct answer using the code given below:

(A) 1 only
(B) 2 only
(C) Both 1 and 2
(D) Neither 1 nor 2

Q.22 IBPS CLERK / RRB ASSISTANT 2025 2025

Two Statements followed by four Conclusions are given below. You have to take the Statements to be true even if they seem to be at variance from the commonly known facts. Read all the Conclusions and then decide which of the given Conclusions logically follows/ follow from the Statements, disregarding the commonly known facts: Statement— 1: All pens are books. Statement—2: No chair is a pen. Conclusion—1: All chairs are books. Conclusion—II: Some chairs are pens. Conclusion—III: All books are chairs. Conclusion—IV: No chair is a book.

(A) Only Conclusion—I
(B) Only Conclusion—II
(C) Both Conclusion—III and Conclusion—IV
(D) None of the Conclusions follows

Q.23 IBPS CLERK / RRB ASSISTANT 2025 2025

Three Statements followed by three Conclusions are given below. You have to take the Statements to be true even if they seem to be at variance from the commonly known facts. Read all the Conclusions and then decide which of the given Conclusions logically follows/ follow from the Statements, disregarding the commonly known facts: Statement—1: Some doctors are teachers. Statement—2: All teachers are engineers Statement—3: All engineers are scientists. Conclusion—I: Some scientists are doctors. Conclusion—II: All engineers are doctors. Conclusion—III: Some engineers are doctors.

(A) Only Conclusion—I
(B) Only Conclusion—II
(C) Both Conclusion—I and Conclusion—III
(D) Both Conclusion—I and Conclusion—II

Q.24 IBPS CLERK / RRB ASSISTANT 2025 2025

In group of 120 persons, 80 are Indians and rest are foreigner. Further, 70 persons in the group can speak English. The number of Indians who can speak English is?

(A) 20 **(B)** 30 **(C)** 30 or less **(D)** 30 or more

Q.25 IBPS CLERK / RRB ASSISTANT 2025 2025

Half of the villagers of a certain village have their own houses. One-fifth of the villagers cultivate paddy. One-third of the villagers are literate. Four-fifth of the are under 25 years of age. Which one of the following statements is certainly correct?

(A) All the villagers who have their own houses are literate.
(B) Some villagers under 25 years of age are literate.
(C) Only half of the villagers who cultivate paddy are literate.
(D) No villager under 25 years of age has his own house.

Q.26 IBPS CLERK / RRB ASSISTANT 2025 2025

Consider two Statements and four Conclusions given below. You have to take the Statements to be true even if they seem to be at variance from the commonly known facts. Read all Conclusions and then decide which of the given Conclusion(s) logically follows/follow from the Statements, disregarding the commonly known facts. Statement-1 : Some greens are blues. Statement-2 : Some blues are blacks. Conclusion-1 : Some greens are blues. Conclusion-2: No green is black. Conclusion-3 : All greens are blacks. Conclusion-4 : All blacks are greens.

(A) Conclusion-1 and Conclusion-2 only
(B) Conclusion-2 and Conclusion-3 only
(C) Conclusion-3 and Conclusion-4 only
(D) Neither Conclusion 1 nor 2 nor 3 nor 4

Q.27

IBPS CLERK / RRB ASSISTANT 2025 2025

Two Statements are given followed by two Conclusions: Statements: All numbers are divisible by 2. All numbers are divisible by 3. Conclusion-I: All numbers are divisible by 6. Conclusion-II: All numbers are divisible by 4. Which of the above Conclusions logically follows/follow from the two given Statements?

(A) Only Conclusion-I
(B) Only Conclusion-II
(C) Neither Conclusion-I nor conclusion-II
(D) Both Conclusions-I and Conclusion-II

Q.28

IBPS CLERK / RRB ASSISTANT 2025 2025

Two Statements are given followed by two Conclusions: Statements: All cats are dogs. All cats are black. Conclusion-I: All cats are black. Conclusion-II: Some dogs are not black. Which of the above Conclusions logically follows/follow from the two given Statements disregarding commonly known facts?

(A) Only Conclusion-I
(B) Only Conclusion-II
(C) Neither Conclusion-I nor Conclusion-II
(D) Both Conclusions-I and Conclusion-II

Q.29

IBPS CLERK / RRB ASSISTANT 2025 2025

Consider the following Statements and Conclusions: Statements: 1. Some rats are cats. 2. Some cats are dogs. 3. No dog is a cow. Conclusions: I. No cow is a cat. II. No dog is a rat. III. Some cats are rats. Which of the above conclusions is/are drawn from the statements?

(A) I, II and III
(B) Only I and II
(C) only III
(D) Only II and III

Q.30

IBPS CLERK / RRB ASSISTANT 2025 2025

In a group of 15 people; 7 can read French, 8 can read English while 3 of them can read neither of these two languages. The number of people who can read exactly one language is?

(A) 10
(B) 9
(C) 5
(D) 4

OFFICIAL ANSWER KEY • IBPS CLERK & RRB ASSISTANT: MODEL PRELIMS SOLVED PRACTICE PAPER

(30 TOTAL QUESTIONS)

1	2	3	4	5	6	7	8	9	10
D	C	B	C	A	B	C	B	C	B
11	12	13	14	15	16	17	18	19	20
C	C	B	D	A	C	D	A	D	D
21	22	23	24	25	26	27	28	29	30
A	D	C	D	B	D	A	C	C	B

DETAILED SOLUTIONS & CONCEPTUAL EXPLANATIONS

Ans (D) **Q.1**

Equate total payments and allowances to derive fundamental pay ratios.

Ans (C) **Q.2**

Derive costs from discounts applied to selling price to return original expense numbers.

Ans (B) **Q.3**

Use current performance metrics to set up equations resolving the total question count.

Ans (C) **Q.4**
Apply Principle of Inclusion-Exclusion to determine overall population metrics for magazine readership.

Ans (A) **Q.5**
Analyze total expenditure allocations to assess food spending.

Ans (B) **Q.6**
Calculate individual savings to establish diversified income standards off expenses.

Ans (C) **Q.7**
Measure performance against total registrations to source completion rates.

Ans (B) **Q.8**
Calculate alterations in dimensions and resultant areas for complation.

Ans (C) **Q.9**
Calculate joint profiteering and misestimations for gain-loss transactions.

Ans (B) **Q.10**
Utilize set theory representations to discern proficiency distributions among musicians.

Ans (C) **Q.11**
Derive total instalment quantities from percentages of loans repaid.

Ans (C) **Q.12**
Analyze application numbers from gender and vehicle permissions for ratio definitions.

Ans (B) **Q.13**
Use both percentages to apply the inclusion-exclusion principle for accurate tallies.

Ans (D) **Q.14**
Calculate ratios to determine relationship balances within marital status and gender mixes.

Ans (D) **Q.20**
Since both numbers sum to 1111, and all digits are distinct and non-zero, the sum of all digits must be 31

CHAPTER 1

Part A • Chapter 1: Simplification & Approximation (Speed Math, Fractions & Decimals)

45 Solved Questions Sorted Chronologically with Exam & Shift Tags

ONLINE MOCK

Q.1 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

What is the remainder when 85 X 87 X 89 X 91 X 95 X 96 is divided by 100?

(A) 0 **(B)** 1 **(C)** 2 **(D)** 4

Q.2 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

What is the unit digit in the expansion of 572429×7×5×3×1 ?

(A) 2 **(B)** 4 **(C)** 6 **(D)** 8

Q.3 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

Three of the five positive integers p, q, r. s. t are even and two of them are odd (not necessarily in order). Consider the following: 1. p + q + r – s – t is definitely even 2. 2p + q + 2r – 2s + t is definitely odd. Which of the above statements is/are correct?

(A) 1 only **(B)** 2 only **(C)** Both 1 and 2 **(D)** Neither 1 nor 2

Q.4 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

Consider the following in respect of prime number p and composite number c. 1. (p+c)/(p–c) can be even 2. 2P+C can be odd. 3. pc can be odd. Which of the statements given above are correct?

(A) 1 and 2 only **(B)** 2 and 3 only **(C)** 1 and 3 only **(D)** 1, 2 and 3

Q.5 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

For any choices of values of X, Y and Z, the 6–digit number of the form XYZXYZ is divisible by ?

(A) 7 and 11 only **(B)** 11 and 13 only **(C)** 7 and 13 only **(D)** 7, 11 and 13

Q.6 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

How many distinct 8–digit numbers can be formed by rearranging the digits of the number 11223344 such that odd digits occupy odd positions and even digits occupy even positions?

(A) 12 **(B)** 18 **(C)** 36 **(D)** 72

Q.7 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

If 7@9@10=8, 9@11@30=5, 11@17@21=13 what is the value of 23@4@15?

(A) 6 **(B)** 8 **(C)** 13 **(D)** 15

Q.8 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

A number N is formed by writing 9 for 99 times. What is the remainder if N is divided by 13?

(A) 11 **(B)** 9 **(C)** 7 **(D)** 1

Q.9 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

Each digit of a 9–digit number is 1. It is multiplied by itself. What is the sum of the digits of the resulting number?

(A) 64 **(B)** 80 **(C)** 81 **(D)** 100

Q.10 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

How many natural numbers are there which give a remainder of 31 when 1186 is divided by these natural numbers?

(A) 6 **(B)** 7 **(C)** 8 **(D)** 9

Q.11 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

Let pp, qq and rr be 2–digit numbers where p < q < r. If pp qq + rr tto, where tto is a 3–digit number ending with zero, consider the following statements: 1. The number of possible values of p is S. 2. The number of possible values of q is 6. Which of the above statements is/are correct?

(A) 1 only **(B)** 2 only **(C)** Both 1 and 2 **(D)** Neither 1 nor 2

Q.12 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

If today is Sunday, the which day is it exactly of 1010 th day?

(A) Wednesday **(B)** Thursday **(C)** Friday **(D)** Saturday

Q.13 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

What is the remainder if 21^92 is divided by 6?

(A) 0 **(B)** 1 **(C)** 2 **(D)** 4

Q.14 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

An Identity Card has the number ABCDEFG, not necessarily in that order, where each letter represents a distinct digit (1, 2, 4, 5, 7, 8, 9 only). The number is divisible by 9. After deleting the first digit from the right, the resulting number is divisible by 6. After deleting two digits from the right of original number, the resulting number is divisible by 5. After deleting three digits from the right of original number, the resulting number is divisible by 4. After deleting four digits from the right of original number, the resulting number is divisible by 3. After deleting five digits from the right of original number, the resulting number is divisible by 2. Which of the following is a possible value for the sum of the middle three digits of the number?

(A) 8 **(B)** 9 **(C)** 11 **(D)** 12

Q.15 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

Which number amongst 240 , 321 , 418 and 812 is the smallest?

(A) 240 **(B)** 321 **(C)** 418 **(D)** 812

Q.16 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

A has some coins. He gives half of the coins and 2 more to B. B gives half of the coins and 2 more to C gives half of the coins and 2 more to D. The number of coins D has now, is the smallest two– digit number. How many coins does A have in the beginning?

(A) 76 **(B)** 60 **(C)** 68 **(D)** 52

Q.17 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

How many seconds in total are there in x weeks, x days, x hours, x minutes, and x seconds?

(A) 11580× **(B)** 11581× **(C)** 694860× **(D)** 694861×

Q.18 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

What is the remainder when 91×92×93×94×95×96×97×98×99 is divided by 1261?

(A) 3 **(B)** 2 **(C)** 1 **(D)** 0

Q.19 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

What is the smallest number greater than 1000 that when divided by any one of the numbers 6, 9, 12, 15, 18 leaves a remainder of 3?

(A) 1063 **(B)** 1073 **(C)** 1083 **(D)** 1183

Q.20 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

Consider the following statements in respect of two natural numbers p and q such that p is a prime number and q is a composite number. 1. p x q can be an odd number, 2. q/p can be a prime number, 3. p ± q can be a prime number. Which of the above statements are correct?

(A) 1 and 2 only **(B)** 2 and 3 only **(C)** 1 and 3 only **(D)** 1, 2 and 3

Q.21 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

If 15×14×13×...×3×2×1= 3m × n where m and n are positive integers, then what is the maximum value of m?

(A) 7 **(B)** 6 **(C)** 5 **(D)** 4

Q.22 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

If 32019 is divided by 10, then what is the remainder?

(A) 1 **(B)** 3 **(C)** 7 **(D)** 9

Q.23 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

The number 3798125P369 is divisible by 7. What is the value of the digit P?

(A) 1 **(B)** 6 **(C)** 7 **(D)** 9

Q.24 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

A biology class at high school predicted that a local population of animals will double in size every 12 years. The population at the beginning of the year 2021 was estimated to be50 animals. If P represents the population after n years, then which one of the following equations represents the model of the class for the population?

(A) P = 12 + 50n **(B)** P = 50 + 12n **(C)** P = 50 + 212n **(D)** P = 50 (2)n/12

Q.25 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

Integers are listed from 700 to 1000. In how many integers is the sum of the digits 10?

(A) 6 **(B)** 7 **(C)** 8 **(D)** 9

Q.26 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

Consider all 3-digit numbers (without repetition of digits) obtained using three non-zero digits which are multiples of 3. Let S be their sum. Which of the following is/are correct? 1. S is always divisible by 74. 2. S is always divisible by 9. Select the correct answer using the code given below:

(A) 1 only **(B)** 2 only **(C)** Both 1 and 2 **(D)** Neither 1 nor 2

Q.27 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

What is the value of 'X' 2, 7, 22, 67, 202, X, 1822?

(A) 603 **(B)** 605 **(C)** 607 **(D)** 608

Q.28 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

When a certain number is multiplied by 7, the product entirely comprises ones only (1111â€¦). What is the smallest such number?

(A) 15713 **(B)** 15723 **(C)** 15783 **(D)** 15873

Q.29 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

How many zeroes are there at the end of the following product? 1×5×10×15×20×25×30×35×40×45×50×55×60

(A) 10 **(B)** 12 **(C)** 14 **(D)** 15

Q.30 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

Let p, q, r and s be natural numbers such that p - 2016 = q + 2017 = r - 2018 = s + 2019 which one of the following is the largest natural number?

(A) p **(B)** q **(C)** r **(D)** s

Q.31 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

How many five-digit prime numbers can be obtained by using all the digits 1, 2, 3, 4 and 5 without repetition of digits?

(A) Zero **(B)** One **(C)** Nine **(D)** Ten

Q.32 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

How many integers are there between 1 and 100 which have 4 as a digit but are not divisible by 4?

(A) 5 **(B)** 11 **(C)** 12 **(D)** 13

Q.33 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

What is the largest number among the following? 1/2 1/3 1/4 1/6

(A) (1/2) **(B)** (1/3) **(C)** (1/4) **(D)** (1/6)

Q.34 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

What the greatest length x such that 3-1/2 m and 8-3/4' m are integral multiples of x?

(A) 1 m **(B)** 1 m 1/4 **(C)** 1 m 3/4 **(D)** 1 m 1/4

Q.35 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

The recurring decimal representation 1.272727... is equivalent to?

(A) 13/11 **(B)** 14/11 **(C)** 127/99 **(D)** 137/99

Q.36 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

What is the least four-digit number when divided by 3, 4, 5 and 6 leaves a remainder 2 in each case?

(A) 1012 **(B)** 1022 **(C)** 1122 **(D)** 1222

Q.37 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

What is the remainder when 51 x 27 x 35 x 62 x 75 is divided by 100?

(A) 50 **(B)** 25 **(C)** 5 **(D)** 1

Q.38 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

For what value of n, the sum of digits in the number (10^n + 1) is 2?

(A) For n: 0 only **(B)** For any whole number n
(C) For any positive integer n only **(D)** For any read number n

Q.39 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

How many pairs of natural numbers are there such that the difference of whose squares is 63?

(A) 3 **(B)** 4 **(C)** 5 **(D)** 2

Q.40 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

Which one of the following will have minimum change in its value if 5 is added to both numerator and the denominator of the fractions 2/3, 3/4, and 5/6?

(A) 2/3 **(B)** 3/4 **(C)** 4/5 **(D)** 5/6

Q.41 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

A digit n > 3 is divisible by 3 but not divisible by 6. Which one of the following is divisible by 4?

(A) 2n **(B)** 3n **(C)** 2n+4 **(D)** 3n+1

Q.42 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

The number of times the digit 5 will appear while writing the integers from 1 to 1000 is?

(A) 269 **(B)** 271 **(C)** 300 **(D)** 302

Q.43 BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

In a school every student is assigned a unique identification number. A student is a football player if and only if the identification number is divisible by 4, whereas a student is a cricketer if and only if the identification number is divisible by 6. If every number from 1 to 100 is assigned to a student, then how many of them play cricket as well as football?

(A) 4 **(B)** 8 **(C)** 10 **(D)** 12

Q.44

BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

If the numerator and denominator of a proper fraction are increased by the same positive quantity which is greater than zero, the resulting fraction is

(A) always less than the original fraction
(B) always greater than the original fraction
(C) always equal to the original fraction
(D) such that nothing can be claimed definitely

Q.45

BANKING PRELIMS (SPEED MATH & SIMPLIFICATION) 2024

A printer numbers the pages of a book starting with 1 and uses 3089 digits in all. How many pages does the book have?

(A) 1040 **(B)** 1048 **(C)** 1049 **(D)** 1050

⚡ QUICK REVISION • KEY FORMULAS & HIGH-YIELD FACTS

⚡ SPEED MATH & SHORTCUT FORMULA CHEAT-SHEET (BANKING PRELIMS HIGH-YIELD)

Must Remember for 35/35

1. Essential Fraction ↔ Percentage Conversions:

1/2 = 50%	1/3 = 33.33%	1/4 = 25%	1/5 = 20%	1/6 = 16.67%	1/7 = 14.28%
1/8 = 12.5%	1/9 = 11.11%	1/10 = 10%	1/11 = 9.09%	1/12 = 8.33%	1/13 = 7.69%
1/14 = 7.14%	1/15 = 6.67%	1/16 = 6.25%	1/20 = 5%	1/24 = 4.16%	1/25 = 4%

2. High-Yield Squares (1 to 50):

11^2–20^2: 121, 144, 169, 196, 225, 256, 289, 324, 361, 400
21^2–30^2: 441, 484, 529, 576, 625, 676, 729, 784, 841, 900
31^2–40^2: 961, 1024, 1089, 1156, 1225, 1296, 1369, 1444, 1521, 1600
41^2–50^2: 1681, 1764, 1849, 1936, 2025, 2116, 2209, 2304, 2401, 2500

3. High-Yield Cubes (1 to 30):

1^3–10^3: 1, 8, 27, 64, 125, 216, 343, 512, 729, 1000
11^3–15^3: 1331, 1728, 2197, 2744, 3375
16^3–20^3: 4096, 4913, 5832, 6859, 8000
21^3–25^3: 9261, 10648, 12167, 13824, 15625
26^3–30^3: 17576, 19683, 21952, 24389, 27000

4. Rapid Calculation Rules for Prelims:

- **Squaring Numbers Ending in 5:** Multiply ten's digit *n* by *(n + 1)* and append 25. E.g., $65^2 = (6 \times 7)|25 = 4225$; $85^2 = (8 \times 9)|25 = 7225$.
- **Multiplication with 11:** E.g., $53 \times 11 = 5|(5+3)|3 = 583$; $78 \times 11 = 7|(7+8)|8 = 858$.
- **Quadratic Sign Method:** If equation is $ax^2 - bx + c = 0 \rightarrow$ Roots are (+, +). If $ax^2 + bx + c = 0 \rightarrow$ Roots are (-, -). If constant term is negative in both equations, relation is always *Cannot Be Determined (CND)*.
- **Digit Sum (Digital Root):** Sum digits until single digit. Cast out 9s. Quickly eliminate options in heavy Simplification & Approximation.

OFFICIAL ANSWER KEY • PART A • CHAPTER 1: SIMPLIFICATION & APPROXIMATION (SPEED MATH, FRACTIONS & DECIMALS)

(45 TOTAL QUESTIONS)

1 **A**	2 **A**	3 **A**	4 **D**	5 **D**	6 **C**	7 **A**	8 **A**	9 **C**	10 **C**
11 **C**	12 **B**	13 **D**	14 **C**	15 **A**	16 **B**	17 **D**	18 **C**	19 **C**	20 **D**
21 **B**	22 **A**	23 **B**	24 **D**	25 **C**	26 **B**	27 **C**	28 **B**	29 **B**	30 **A**
31 **A**	32 **C**	33 **A**	34 **D**	35 **C**	36 **B**	37 **A**	38 **A**	39 **A**	40 **D**
41 **D**	42 **C**	43 **B**	44 **B**	45 **B**					

CHAPTER 2

Part A • Chapter 2: Number Series (Missing Number & Wrong Number Series)

45 Solved Questions Sorted Chronologically with Exam & Shift Tags

ONLINE MOCK

Q.1 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Choose the group which is different from the others: [2023/40] (a) 17, 37, 47, 97 (b) 31, 41, 53, 67 (c) 71, 73, 79, 83 (d) 83, 89, 91, 97

(A) 17, 37, 47, 97 **(B)** 31, 41, 53, 67 **(C)** 71, 73, 79, 83 **(D)** 83, 89, 91, 97

Q.2 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

What is the middle term of the sequence Z, Z, Y, Y, Y, X, X, X, X, W, W, W, W, W,.....,A? [2023/55]

(A) H **(B)** I **(C)** J **(D)** M

Q.3 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Consider the sequence ABC_ _ ABC _ DABBCD_ ABCD that follows a certain pattern. Which one of the following completes the sequence? [2023/75]

(A) DACE **(B)** CDAB **(C)** DCCA **(D)** DDCA

Q.4 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

The letters of the word 'INCOMPREHENSIBILITIES' are arranged alphabetically in reverse order. How many positions of the letter/letters will remain unchanged? [2023/80]

(A) None **(B)** One **(C)** Two **(D)** Three

Q.5 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

What is the value of X in the sequence 20, 10, 10, 15, 30, 75, X? [2022/4]

(A) 105 **(B)** 120 **(C)** 150 **(D)** 225

Q.6 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

If the order of the letters in the English alphabet is reversed and each letter represents the letter whose position it occupies, then which one of the following represents 'LUCKNOW'? [2022/16]

(A) OGXPMLD **(B)** OGXQMLE **(C)** OFXPMLE **(D)** OFXPMLD

Q.7 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

In the series AABABCABCDABCDE…. which letter appears at the 100th place? [2022/29]

(A) G **(B)** H **(C)** I **(D)** J

Q.8 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

What is the value of X in the sequence 2, 12, 36, 80, 150, X? [2022/75]

(A) 248 **(B)** 252 **(C)** 258 **(D)** 262

Q.9 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Replace the incorrect term by the correct term in the given sequence 3, 2, 7, 4, 13, 10, 21, 18, 31, 28, 43, 40 where odd tents and even terms follow the same pattern [2021/26]

(A) a.0 **(B)** b.1 **(C)** c.3 **(D)** d.6

Q.10 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Following is a matrix of certain entries. The entries follow a certain trend row-wise. Choose the missing entry (?) accordingly. [2021/27]

(A) 9B **(B)** 3A **(C)** 3B **(D)** 3C

Q.11 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

You are given two identical sequences in two rows: What is the entry in the place of C for the Sequence-II? [2021/28]

(A) 2.5 **(B)** 5 **(C)** 9.375 **(D)** 32.8125

Q.12 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

In the series _b_a_ba_b_abab_aab; fill in the six blanks (_) using one of the following given four choices such that the series follows a specific order. [2021/65]

(A) bababa **(B)** baabba **(C)** bbaabb **(D)** ababab

Q.13 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

In the English alphabet, the first 4 letters are written in opposite order; and the next 4 letters are written in opposite order and so on; and at the end Y and Z are interchanged. Which will be the fourth letter to the right of the 13th letter? [2021/40]

(A) N **(B)** T **(C)** H **(D)** I

Q.14 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

A simple mathematical operation in each number of the sequence 14, 18, 20, 24, 30, 32, ...results in a sequence with respect to prime numbers. Which one of the following is the next number in the sequence? [2020/13]

(A) 34 **(B)** 36 **(C)** 38 **(D)** 40

Q.15 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Consider the following arrangement that has some missing letters: abab_b_bcb_dcdcded_d The missing letters which complete the arrangement are [2020/15]

(A) a,b,c,d **(B)** a,b,d,e **(C)** a,c,c,e **(D)** b,c,d,e

Q.16 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Consider the following sequence of numbers: 5147398572631586385224349 6 How many odd numbers are followed by the odd number in the above sequence? [2020/34]

(A) 5 **(B)** 6 **(C)** 7 **(D)** 8

Q.17 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

What is x in the sequence 132, 129, 124, 117, 106, 93, X ? [2019/48]

(A) 74 **(B)** 75 **(C)** 76 **(D)** 77

Q.18 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

What is x in the sequence 4, 196, 16, 144, 36, 100, 64, X ? [2019/51]

(A) 48 **(B)** 64 **(C)** 125 **(D)** 256

Q.19 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Consider the following sequence that follows some arrangement: c_accaa_aa_bc_b. The letters that appear in the gaps are [2019/54]

(A) abba **(B)** cbbb **(C)** bbbb **(D)** cccc

Q.20 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

If every alternative letter of the English alphabet from B onwards (including B) is written in lower case (small letters) and the remaining letters are capitalized, then how is the first month of the second half of the year written? [2019/68]

(A) JuLY **(B)** jULy **(C)** jUly **(D)** jUlY

Q.21 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

In the sequence 1, 5, 7, 3, 5, 7, 4, 3, 5, 7, how many such 5s are there which are not immediately preceded by 3 but are immediately followed by 7? [2019/70]

(A) 1 **(B)** 2 **(C)** 3 **(D)** None

Q.22 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Consider the following pattern of numbers: What is the number at ? in the above pattern? [2018/3]

(A) 17 **(B)** 19 **(C)** 21 **(D)** 23

Q.23 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

How many diagonals can be drawn by joining the vertices of an octagon? [2018/4]

(A) 20 **(B)** 24 **(C)** 28 **(D)** 64

Q.24 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Consider the figures given below: To fit the question, mark the correct answer is [2018/66]

(A) A **(B)** B **(C)** C **(D)** D

Q.25 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Consider the following figures: In the figures (I) to (VI) above, some parts are shown to change their positions in regular directions. Following the same sequence, which of the figures given below will appear at (VII) stage? [2018/70]

(A) A **(B)** B **(C)** C **(D)** D

Q.26 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Consider the sequence given below: 4/12/95, 1/1/96, 29/1/96, 26/2/96, ... What is the next term of the series? [2018/59]

(A) 24/3/96 **(B)** 25/3/96 **(C)** 26/3/96 **(D)** 27/3/96

Q.27 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Consider the figures given below: To fit the question mark, the correct answer is [2015/11]

(A) A **(B)** B **(C)** C **(D)** D

Q.28 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Consider the following matrix: What is missing number at '?' in the matrix? [2015/12]

(A) 5 **(B)** 0 **(C)** 7 **(D)** 3

Q.29 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

What is the missing number X of the series 7, X, 21, 31, 43, ? [2015/13]

(A) 11 **(B)** 12 **(C)** 13 **(D)** 14

Q.30 IBPS & SBI PO (NUMBER & ALPHA SERIES) 2024

Examine the following figure: Which one of the following figures has the above figures embedded in it? [2014/39]

(A) A **(B)** B **(C)** C **(D)** D

Q.31 BANKING PRELIMS PATTERN 2024

The letters of the word 'INCOMPREHENSIBILITIES' are arranged alphabetically in reverse order. How many positions of the letter/letters will remain unchanged? [2023/80]

(A) None **(B)** One **(C)** Two **(D)** Three

Q.32 BANKING PRELIMS PATTERN 2024

What is the value of X in the sequence 20, 10, 10, 15, 30, 75, X? [2022/4]

(A) 105 **(B)** 120 **(C)** 150 **(D)** 225

Q.33 BANKING PRELIMS PATTERN 2024

If the order of the letters in the English alphabet is reversed and each letter represents the letter whose position it occupies, then which one of the following represents 'LUCKNOW'? [2022/16]

(A) OGXPMLD **(B)** OGXQMLE **(C)** OFXPMLE **(D)** OFXPMLD

Q.34 BANKING PRELIMS PATTERN 2024

In the series AABABCABCDABCDE…. which letter appears at the 100th place? [2022/29]

(A) G **(B)** H **(C)** I **(D)** J

Q.35 BANKING PRELIMS PATTERN 2024

What is the value of X in the sequence 2, 12, 36, 80, 150, X? [2022/75]

(A) 248 **(B)** 252 **(C)** 258 **(D)** 262

PREVIEW SAMPLE CONCLUDED

Unlock 10,000+ Questions & Full Shift Papers

You have just previewed the first 30 pages of this comprehensive competitive exam question bank. Access the complete print edition, topic-wise chapter blueprints, and full-length online test series on **mysarkarinaukri.com**.

www.mysarkarinaukri.com/quiz/

Scan now with any smartphone camera to attempt free mock tests

mysarkarinaukri.com • India's Premier Sarkari Exam & Job Preparation Portal