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8+ years Teaching Experience

Harshal Agrawal is a renowned expert in the field of Quantitative Aptitude and has dedicated his career to helping students and professionals master this essential skill. He has done both his BTech and MTech from IIT BHU, Varanasi. He has cleared many competitive exams like CAT (99+ percentile twice), IIT, AIEEE, BITSAT, GATE, IBPS PO and RRB PO. Since his days at IIT, he has taught Mathematics and Quantitative Aptitude to aspirants for IIT JEE, UPSC, CLAT, CAT, IBPS, and SBI. His unique way of solving questions with the easiest basic and diagrammatic approach is lovingly appreciated by students. Currently, he is the educator of Quantitative Aptitude for Bank Exams at his own platform Learning Niti and provides free education to banking and CAT exam aspirants on his YouTube channel, "Learning Capsules - Harshal Agrawal". The idea behind his thought about teaching is "meri padhaai mere ghar walo ne karaa di hai, ab us padhaai se kai gharon mein naukriyaa laani hain, kai saare bacchon ko kaabil banana hai, jisse unke parivaar acchi zindagi jii sakein"

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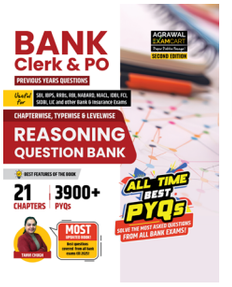
Bank Clerk & PO English (Question Bank)



Bank Clerk & PO Reasoning (Question Bank)

Chapter

1

Number System

Type : 1
Questions Based on Definitions or Classification

Bank Clerk

1. If P is a two Prime number, what is the value of?
I. When P is divided by 4 and remainder is 3.
II. P is 2 more than multiple of 7.
(A) 70 (B) 59
(C) 79 (D) 56
(E) None of these
[RRB Office Scale-1, 2020]

2. Three consecutive positive even numbers are such that thrice the 1st number exceeds double the 3rd by 2, then the 3rd number is :
(A) 12 (B) 16
(C) 14 (D) 10
(E) None of these
[RRB Assistant 2020]

3. A number is interesting if on adding the sum of the digits of the number and the product of the digits of the number, the result is equal to the number. What fraction of numbers between 10 and 100 (both 10 and 100 included) in interesting ?
(A) 0.1 (B) 0.11
(C) 0.16 (D) 0.22
(E) 0.33
[IBPS Clerk Pre 2017]

4. When you reverse the digits of the number 13, then number increases by 18. How many other two-digit numbers increase by 18 when their digits are reversed ?
(A) 7 (B) 8
(C) 6 (D) 5
(E) 10
[IBPS Clerk Pre 2017]

5. '*mn*' is a two-digit prime number such that one of its digits is 3. If the absolute difference between the digits of the number is not a factor of 2, then how many values can '*mn*' assume ?
(A) 3 (B) 8
(C) 6 (D) 5
(E) 7
[SBI JA&JAA Bank Clerk Pre 2017]

6. If a number is multiplied by three-fourth of itself, the value thus obtained is 10800. What is that number ?
(A) 210 (B) 180
(C) 120 (D) 160
(E) 140
[SBI JA & JAA Bank Clerk Pre 2016]

7. By how much is 3/4th of 52 is less than 2/3rd of 99 ?
(A) 27 (B) 33
(C) 39 (D) 29
(E) 55
[RBI Assistant Pre 2016]

8. There are some students in the class and number of candies received by each student is one-seventh of the total student in the class. If the number of student in the class becomes one-fifth then each students gets 25 candies. Find the total number of candies distributed in the class ?
(A) 177 (B) 175
(C) 196 (D) 174
(E) 198
[IBPS Clerk Pre 2016]

Bank PO

9. M, N and O are three consecutive odd numbers in ascending order. If the value of three times M is 3 less then two times O, find the value of O.
(A) 11 (B) 7
(C) 5 (D) 9
(E) 12
[RRB PO Pre 2020]

10. Let XYZ be *a* three-digit number, where (X + Y + Z) is not a multiple of 3. Then (XYZ + YZX + ZXY) is not divisible by :
(A) 3 (B) 9
(C) 37 (D) $x + y + 21$
(E) 45
[RRB PO Pre 2019]

Type : 2
Dividend = Divisor × Quotient Remainder

Bank Clerk

11. Arka Pratap divides a certain number by 5, 7 and 8 successively, the remainders are 2, 3 and 4 respectively. What will be the remainder if the order of the division is reversed ?
(A) 6,5 and 2 (B) 5, 5 and 2
(C) 4, 5 and 2 (D) 2, 5 and 4
(E) None of these
[SBI Clerk (Junior Ass.) Main 2019

12. When 3,626 is divided by the square of a number and the answer so obtained is multiplied by 32, the final answer obtained is 2,368. What is the number ?
(A) 7 (B) 36
(C) 49 (D) 6
(E) None of these
IBPS RRB office Assis. Main 2018

Type : 3
Divisibility Rule

Bank Clerk

13. The digits of a three-digit number N are written in the reverse order to form another three-digit number M. If M > N and M-N is perfectly divisible by 7, then which of the following is necessarily true ?
(A) 106 < N < 305 (B) 100 < N < 299
(C) 118 < N < 317 (D) 112 < N < 311
(E) None of these
[RRB Assistant 2017]

Bank PO

14. Consider the following statements :
I. 7710312401 is divisible by 11.
II. 173 is a prime number.
Which of the statements given above is/ are correct ?
(A) Only I (B) Only II
(C) Both I and II (D) Neither I nor II
(E) None of these
[RRB PO Pre Exam. 2020]

15. A six-digit number is formed by repeating a three-digit number; for example, 256, 256 or 678, 678 etc. Any number of this form is always exactly divisible by :
(A) 7 only (B) 11 only
(C) 13 only (D) 1001
(E) None of these
[IBPS PO Main Exam 2017]

Type : 4
Questions Based on Sum of Natural Numbers

Bank Clerk

16. If k and p are integers divisible by 5, which of the following is not necessarily true ?
(A) $k - p$ is divisible by 5
(B) $k^2 - p^2$ is divisible by 25
(C) $k + p$ is divisible by 10
(D) $k + p$ is divisible by 20
(E) None of these
[RRB Assistant 2019]

17. Let a, b and c be distinct integers, that a and b are odd and positive, and c is even and positive. Which one of the following statements cannot be true ?
(A) abc^2 is odd
(B) $(a - b)^2 c$ is even
(C) $(a - b)(b + c)(a + b - c)$ is odd
(D) $(a + b - c)(a + b)$ is even
(E) None of these
[SBI Clerk 2019]

18. Let a and b be positive integers such that a is prime and b is composite. Then,
(A) $b - a$ cannot be an even integer
(B) $(a + b)/a$ cannot be an even integer
(C) ab cannot be an even integer
(D) $(a + b)$ is an integer
(E) None of these
[SBI Clerk 2018]

19. If 6 marks are awarded to right answer and 3 marks penalty for wrong answer. Then Prabhat's score was 120. If he attempted 50 questions then find number of correctly attempted questions ?
(A) 30 (B) 42
(C) 48 (D) 35
(E) 38
[IBPS Clerk Pre 2018]

20. Sum of 4 consecutive even numbers are greater than three consecutive odd numbers by 81. If sum of least odd and even number is 59, then find the sum of largest odd and even numbers.
(A) 69 (B) 71
(C) 73 (D) 67
(E) None of these
[IBPS Clerk Pre 2017]

21. The difference between the sum of four consecutive odd numbers and three consecutive even numbers together is 20. Also, the largest even number is 5 more than the largest odd number. What is the sum of the smallest odd number and the smallest even number ?
(A) 77 (B) 71
(C) 879 (D) 83
(E) Cannot be determined
[IBPS Clerk Main 2016]

22. Pravin purchased 25 kg of rice at the rate ₹45 per kg and 12 kg of pulses at the rate of ₹28 per kg. What is the total amount that he paid to the shopkeeper ?
(A) ₹1,466 (B) ₹1,426
(C) ₹1,461 (D) ₹1,471
(E) None of these
[SBI JA & JAA Bank Clerk Pre 2016]

23. The sum of five consecutive numbers is 190. What is the sum of the largest and the smallest number ?
(A) 75 (B) 77
(C) 76 (D) 73
(E) None of these
SBI JA & JAA Bank Clerk Pre 2016

Type : 5
Remainder Theorem

Bank Clerk

24. The numbers 1 to 29 are written side by side as follows 1234567891011.....28 29. If the number is divided by 9, then what is the remainder ?
(A) 3 (B) 1
(C) 0 (D) 6
(E) None of these
[SBI Clerk 18-10-2023 Shift-1]

Type : 6
Questions Based on Number of Digits

Bank Clerk

25. What is the value of P ?
I. P and Q are unequal even integers, less than 10, and P/Q is an odd integers.
II. P and Q are even integers, each less than 10, and product of P and Q is 12.
(A) Only I
(B) Only II
(C) Either I or II
(D) Both together
(E) Neither I nor II together
[IBPS Clerk 2021]

26. If x and y are consecutive positive integers, such that $x < y$,
I. $(x + 1)(y - 1) = xy$
II. $(x + y)^2$ leaves a remainder of 1 when divided by 8.
(A) Only I
(B) Only II
(C) Either I or II alone
(D) Both together
(E) Neither I nor II together
[IBPS Clerk Main 2021]

Bank PO

27. The unit digit of a three digit number is two more than its tenth place digit. If we subtract 311 from the number, then we receive 13 as the resultant. Find the sum of all three digits of the number.
(A) 13 (B) 10
(C) 9 (D) 11
(E) 12
[IBPS RRB PO Main 2024]

28. The ten's digit of a three digit number is 3. If the hundredth and unit digits are intercharged and the number thus formed is 396 more than the previous one. The sum of unit digit and hundred digit is 14, then what is the number?
(A) 480 (B) 539
(C) 593 (D) 935
(E) None of these
[IBPS PO Pre 15-10-2017, 07-10-2017]

Type : 7
Factorial Rule

Bank Clerk

29. The integers 1, 2 ....., 40 are written on a blackboard.

The following operation is then repeated 39 times. In each repetition, any two numbers, say a and b, currently on the blackboard are erased and a new number $a + b - 1$ is written. What will be the number left on the board at the end ?
(A) 820 (B) 821
(C) 781 (D) 819
(E) None of these
[SBI Clerk 2021]

Bank PO

30. Let $N = 1! + 2! + 3! + 4! + \ldots\ldots + 200!$ Which one about N is true ?
(i) N is even (ii) N is odd
(iii) N/2 is odd
(A) Only (i) (B) Only (ii)
(C) Only (i) & (iii) (D) Only (iii)
(E) None of these
[IBPS PO Main 2017]

Type : 8
Miscellaneous

Bank Clerk

31. In the question, two quantities (I) and (II) are given. You have to solve both quantities to establish the correct relation between Quantity (I) and Quantity (II) and choose the correct option.

x and y are integers

Quantity I : $\sqrt[3]{216x^3} - 2x^4 + 51x$ such that $8 \le x \le 12$

Quantity II : $50y + 3^2 \times \sqrt[y]{64^2}$ such that $2 \le y \le 4$

(A) Quantity (I) > Quantity (II)
(B) Quantity (I) < Quantity (II)
(C) Quantity (I) ≥ Quantity (II)
(D) Quantity (I) ≤ Quantity (II)
(E) Quantity (I) – Quantity (II) or No relation can be established

[SBI Clerk Main 25/02/2024 Shift-I]

32. If the numerator of a certain fraction is increased by 80%, while the denominator is increased by 200%, then the ratio of the numerator and denominator becomes 21 : 50, what will be the actual fraction?

(A) 5/7 (B) 7/8
(C) 7/10 (D) 8/11
(E) 5/8

[SBI Clerk 19/11/22 Shift-I]

33. The numerator of a fraction is decreased by 25% and the denominator is increased by 250%. If the resultant fraction is $\frac{6}{5}$, What is the original fraction ?

(A) $\frac{25}{5}$ (B) $\frac{24}{5}$
(C) $\frac{27}{6}$ (D) $\frac{28}{5}$
(E) $\frac{30}{11}$

[IBPS Clerk Pre 2016]

34. There are two integers 34041 and 32506, when divided by a three-digit integer n, leave the same remainder. What is the value of n ?

(A) 298 (B) 307
(C) 461 (D) 245
(E) can't be determined

[SBI Clerk 2020]

Bank PO

35. The question consists of 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 or not and choose the correct option accordingly.

There are seven consecutive natural numbers. Find the average of the numbers.

Statement I: Second largest number is 62.5% more than the smallest number.

Statement II: Largest number is 6 more than the smallest number.

(A) The data in statement I alone is sufficient to answer, while the data in statement II alone is not sufficient to answer the question.
(B) The data in statement II alone is sufficient to answer, while the data in statement I alone is not sufficient to answer the question.
(C) The data either in statement I alone or in statement II alone are sufficient to answer the question.
(D) The data given in both statements I and II together are not sufficient to answer the question.
(E) The data in both statements I and II together are necessary to answer the question.

[RRB PO Pre, 06-08-2023 (Shift-IV)]

36. When the digits of a two digit natural number are interchanged then original number is greater than four times the new number so obtained. How many such natural numbers satisfy the given condition ? Ignore the numbers which have '0' in their unit place.

(A) 2 (B) 3
(C) 5 (D) 6
(E) 7

[IBPS PO Main, 2018]

Direction (Q. No. 37 and 38)

Answer the question based on the information given below: Solve the given equations and answer the questions based on it.

A. $(a \times a) - 3a - \sqrt{(4a^2)} = -6$

B. $\left((b^2) - \sqrt{81b^2}\right) = -4 \times (5)$

C. $\left(c^2 \times \sqrt{625c^6}\right) / 5c^3 + (4 \times 7) = 39c$

D. $d^2 - (3 \times 5)d = \{7 \times (-8)\}$

[IBPS PO Main, 2022]

37. Find the LCM of all the larger roots of the equations A, B, C and D.

(A) 720 (B) 120
(C) 360 (D) 840
(E) None of these

38. In which of the given equation (s) the difference between larger root and smaller root is 1?

(A) Only B and D
(B) Only A and B
(C) Only A and D
(D) Only A, B and D
(E) All A, B, C and D

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