

GOUR INSTITUTE

PSC, Bank (Clerk/PO), SSC, Railways, S.I., Classes

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F – 12, City Bazar, Thatipur, Gwalior (M.P.) www.gourinstitute.in

NUMBER & NUMBER SYSTEM

INTRODUCTION

1. Natural Numbers :

Counting numbers 1, 2, 3, 4, 5, .. are called natural numbers.

II. Whole Numbers :

All counting numbers together with zero form the set of whole numbers. Thus,

I. 0 is the only whole number which is not a natural number.

II. Every natural number is a whole number.

III. Some Important Formulae :

I. $(1 + 2 + 3 + \dots + n) = n(n + 1) / 2$

II. $(1^2 + 2^2 + 3^2 + \dots + n^2) = n(n + 1)(2n + 1) / 6$

III. $(1^3 + 2^3 + 3^3 + \dots + n^3) = n^2(n + 1)^2 / 4$

NUMBER & NUMBER SYSTEM

EXERCISE

- 1- When a certain number divided by 15, the remainder is 5 and quotient is 15, the number is -
(a) 210 (b) 230 (c) 220 (d) 240 (e) None of these
- 2- The product of two numbers is 576. If one of the number be 48, then the other number is -
(a) 10 (b) 12 (c) 14 (d) 16 (e) None of these
- 3- How many prime numbers between 10 to 100 -
(a) 21 (b) 22 (c) 23 (d) 24 (e) None of these
- 4- How many six digit number are-
(a) 100000 (b) 700000 (c) 800000 (d) 900000 (e) None of these
- 5- Divisor 51, Quotient 16, Remainder 7 then Dividend -
(a) 810 (b) 802 (c) 823 (d) 826 (e) None of these
- 6- Quotient 15, dividend 940, Remainder 25, then divisor -
(a) 60 (b) 61 (c) 62 (d) 63 (e) None of these
- 7- $1 + 2 + 3 + \dots + 40 = ?$
(a) 810 (b) 820 (c) 830 (d) 840 (e) None of these
- 8- $(1)^2 + (2)^2 + (3)^2 + \dots + (9)^2 = ?$
(a) 279 (b) 289 (c) 285 (d) 295 (e) None of these
- 9- $(1)^3 + (2)^3 + (3)^3 + \dots + (9)^3 = ?$
(a) 2025 (b) 1725 (c) 2425 (d) 2525 (e) None of these
- 10- $2 + 4 + 6 + 8 + \dots + 100 = ?$
(a) 2150 (b) 2250 (c) 2450 (d) 2550 (e) None of these
- 11- $1 + 3 + 5 + 7 + \dots + 29 = ?$
(a) 225 (b) 289 (c) 296 (d) 275 (e) None of these
- 12- $9 + 11 + 13 + \dots + 59 = ?$
(a) 784 (b) 884 (c) 684 (d) 984 (e) None of these
- 13- Remainder = 0, Dividend = 2, Divisor = ?, Quotient = 2
(a) 01 (b) 02 (c) 03 (d) 04 (e) None of these
- 14- $7945 \div 5 = ?$
(a) 1579 (b) 1589 (c) 1545 (d) 1535 (e) None of these
- 15- $64725 \div 25 = ?$
(a) 2069 (b) 2379 (c) 2589 (d) 2779 (e) None of these
- 16- $647000 \div 125 = ?$
(a) 2156 (b) 4156 (c) 3156 (d) 5176 (e) None of these
- 17- A number exceeds its four-nine by 15, The number is. -
(a) 21 (b) 23 (c) 25 (d) 27 (e) None of these
- 18- How many number between 1 to 50 are exactly divisible by 3 and 4 -
(a) 01 (b) 02 (c) 03 (d) 04 (e) None of these
- 19- $9654 \times 125 = ?$
(a) 1206750 (b) 1206550 (c) 1246750 (d) 1226450 (e) None of these

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ANSWER SHEET

NUMBER & NUMBER SYSTEM EXERCISE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
B	B	A	D	C	B	B	C	A	B	A	B	A	B	C	D	D	D	A	D