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PRACTICE QUESTION SET ON NUMERICAL Ability for IBPS Probationary Officer Exam 2012



$1. \sqrt{5^2 \times 41 \times 5 - 17^2 - 75} = ?$
(A) 69
(B) 61
(C) 71
(D) 79
(E) None of these
2. $(2.25)^2 \div (3.375)^4 \times (1.5)^5 = (1.5)^{?-7}$
(A) 6
(B) 2
(C) 4
(D) 0
(E) None of these
3. $(\sqrt{5} - \sqrt{6})^2 + (\sqrt{3} + \sqrt{10})^2 = (?)^3 - 40$
(A) 8
(B) 4
(C) 3
(D) 6
(E) None of these
4. $(\sqrt{125.44} \times 85 \div 8) - 11 = (?)^2 \div 3$
(A) $2\sqrt{6}$
(B) $\sqrt{6}$
(C) 12
(D) 18
(E) 6

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



5. 68% of  $\sqrt{2916} \times 25 = ? + 189$ 

(A) 728

(B) 718

(C) 729

(D) 739

(E) None of these

Directions-(Q. 6-10) What approximate value will corne in place of question mark (?) in the following questions ? (You are not expected to calculate the exact value.)

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6. 38% of 568 + 16% of 1654 - 212 = ?
(A) 200
(B) 220
(C) 270
(D) 330
(E) 390
7. 8787 \div 77 \ge 92 = ? \ge 13
(A) 720
(B) 780
(C) 840
(D) 810
(E) 750
8. \sqrt{7778} \times \sqrt{4678} \div \sqrt{689} = ?
(A) 380
(B) 410
(C) 280
(D) 230
(E) 350
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9. $(56.15)^2 - (24.9)^2 - (11.9)^2 = ?$
(A) 2390
(B) 2460
(C) 2550
(D) 2680
(E) 2240
$10.\frac{579}{35}\div\frac{17}{2323}\times\frac{156}{249}=?$
(A) 1360
(B) 1420
(C) 1480

(D) 1560

(E) 1680

Directions-(Q. 11-15) What will corne in place of question mark (?) in the following number series?

### 11. 24, 24, 28, 46, 94, (?)

- (A) 186
- (B) 196
- (C) 194
- (D) 184
- (E) None of these

# 12. 18, 29, 110, 453, 1078, (?)

- (A) 1321
- (B) 1342
- (C) 1312
- (D) 1365
- (E) None of these



13. 756, 535, 348, 195, 76, (?) (A) 17 (B) - 8 (C) 12 (D) -9 (E) None of these 14. 13, 22, 43, 76, 121, (?) (A) 175 (B) 184 (C) 181 (D) 178 (E) None of these  $15.\,\frac{7}{9},\frac{2}{3},\frac{5}{3},\frac{14}{9},\frac{23}{9},(?)$  $(A)\frac{23}{6}$ (B)  $\frac{22}{9}$  $(C)\frac{32}{9}$ (D)  $\frac{35}{6}$ 

(E) None of these

Directions-(Q. 16-20) In the following questions two equations numbered I and II are given. You have to solve both the equations and give answer if-

(A) x > y(B)  $x \ge y$ (C) x < y(D)  $x \le y$ (E) x = y or the relationship cannot be established



16. I. 
$$\frac{(5)^2}{\sqrt{x}} - \frac{19}{\sqrt{x}} = (x)^{3/2}$$
  
II.  $y^4 - \frac{(2)^{9/2}}{\sqrt{y}} = 0$   
17. I.  $3x^2 + 16x + 21 = 0$   
II.  $y^2 + 7y + 12 = 0$   
18. I.  $\frac{7}{17} - \frac{13}{34} = \frac{\sqrt{x}}{102}$   
II.  $\frac{\sqrt{y}}{12} + \frac{\sqrt{y}}{6} = \frac{1}{2\sqrt{y}}$   
19. I.  $(1024)^{1/2}x + (512)^{1/3} = 232$   
II.  $(729)^{1/3}y + 1163.5 = 1231$   
20. I.  $5 \ge \sqrt{169} \ge^2 - 585 = 0$   
II.  $6 \ge \sqrt{324} \ge 324 = 0$ 

21. Distance between two railways stations A and B is 1536 km. A train covers a journey between A to B at the uniform speed of 60 km / hr and returns from B to A at the uniform speed of 40 km/ hr. What is the average speed of the train during the whole journey?

- (A) 48 km/hr
- (B) 50 km/hr
- (C) 52 km/hr
- (D) 46 km/hr
- (E) None of these

22. What is the value of thirty eight per cent of seven-twelfth of twice the cube of fifteen?

- (A) 1496.25
- (B) 1478.50
- (C) 1649.25
- (D) 1748.50
- (E) None of these



23. There are four numbers A, B, C and D. Sum of A and B is 150, B and C is 185, C and D is 230. B is 25 less than C. What is the total sum of A, Band D together?

- (A) 270
- (B) 285
- (C) 260
- (D) 275
- (E) None of these

24. A man divided Rs. 9,600 among his four sons, three daughters and wife. Each daughter got twice the amount given to each son. His wife got Rs. 300 less than amount given to each son. How much total amount did all the three daughters get?

- (A) Rs. 4,500
- (B) Rs. 5,400
- (C) Rs. 2,700
- (D) Cannot be determined
- (E) None of these

25. What will be the least number which when divided by 5, 6, 7 and 8 leaves remainder 3 but when divided 9 leaves no remainder?

- (A) 1674
- (B) 1692
- (C) 1683
- (D) Cannot be determined
- (E) None of these

Directions (Q.26 to 40) What should come in place of the question mark (?) in the following questions?

- 26. 5 x ? =  $8042 \div 4$
- (A) 396.1
- (B) 6433.6
- (C) 10052.5



(D) 402.1

(E) None of these

- 27. 206 x 71 12080 =?
- (A) 2546
- (B) 2654
- (C) 2564
- (D) 2645
- (E) None of these

28. 
$$\frac{3}{7} \div \frac{9}{14} \times \frac{6}{11} = ?$$
  
(A)  $\frac{5}{22}$   
(B)  $\frac{9}{11}$   
(C)  $\frac{4}{11}$   
(D)  $\frac{7}{22}$   
(E) None of these  
29.  $\sqrt{?} + 22 = \sqrt{2601}$   
(A)  $\sqrt{841}$   
(B)  $(841)^2$   
(C)  $\sqrt{22}$   
(D) 22  
(E) None of these  
30.  $2\frac{4}{5} - 1\frac{3}{8} + 3\frac{1}{2} = ?$ 

?

(A) 
$$5\frac{17}{40}$$
  
(B)  $4\frac{37}{40}$ 



(C)	2	27
		40

- (D)  $3\frac{11}{40}$
- (E) None of these
- **31.** 14% of 905 + ? = 287
- (A) 158.7
- (B) 160.3
- (C) 153.1
- (D) 162.5
- (E) None of these

## 32. 2073.5 ÷ (22 x 14.5) = ?

- (A) 5.5
- (B) 6.5
- (C) 4.5
- (D) 3.5
- (E) None of these
- 33. 6824 + 7864 = ? x 40
- (A) 376.4
- (B) 359.2
- (C) 363.4
- (D) 367.2
- (E) None of these

#### **34.** $10000 \div 100 \div 10 = ?$

- (A) 1
- (B) 0.1
- (C) 1000



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(D) 100
(E) None of these
35. (49)^2 \times (7)^8 \div (343)^3 = (7)^?
(A) 3
(B) 13
(C) 7
(D) 9
(E) None of these
36. 7825 - 9236 + 5234 =? x 25
(A) 152.92
(B) 152.29
(C) 125.29
(D) 125.92
(E) None of these
37. 58% of 450 -? % of 250 = 181
(A) 44
(B) 40
(C) 32
(D) 38
(E) None of these
38. 17.7% of 286 =?
(A) 62.262
(B) 48.266
(C) 64.626
(D) 50.622
(E) None of these
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#### **39.** 13.5 x 16.3 x 12.8 = ?

(A) 2861.46

(B) 2168.46

(C) 2816.64

(D) 2186.64

(E) None of these

40. 525.25 + 52.52 + 5.2 = ?

(A) 578.79

(B) 528.97

(C) 588.97

(D) 582.79

(E) None of these

Directions (Q.41 to 45) what approximate value should come in place of the questions mark (?) in the following questions? (Note: You are not expected to calculate the exact value.)

# $41.(12.999)^3 = ?$

- (A) 1800
- (B) 1650
- (C) 2000
- (D) 2500

(E) 2200

#### 42. $50550 \div 50 \div 5 = ?$

- (A) 350
- (B) 150
- (C) 300
- (D) 250
- (E) 200



43. 49.0003 ÷ 74.999 =?
(A) 0.05
(B) 0.2
(C) 1
(D) 0.7
(E) 2
44. 23.003 x 22.998 + 100.010 =?
(A) 630
(B) 550
(C) 700
(D) 720
(E) 510
45. 125.009 + 69.999 + 104.989 =?
(A) 420
(B) 300
(C) 285
(D) 415
(E) <b>325</b>

Directions (Q.46 to 50) What should come in place of the question mark (?) in the following number series?

46. 2 14 84 420 1680 5040 ?

- (A) 9940
- (B) 7680
- (C) 10080
- (D) 5040
- (E) None of these



#### 47.358132134?

- (A) 72
- (B) 47
- (C) 55
- (D) 64
- (E) None of these
- 48.12621?4452676
- (A) 88
- (B) 67
- (C) 62
- (D) 84
- (E) None of these

#### 49. 27 125 ? 729 1331 2197 3375

- (A) 512
- (B) 447
- (C) 216
- (D) 343
- (E) None of these

#### 50. 10400 2600 650 ? 40.625 1 0.15625 2.5390625

- (A) 185.5
- (B) 162.5
- (C) 164.75
- (D) 156.25
- (E) None of these

# Directions (Q.51 to 55): What should come in place of question mark (?) in the following questions?

51. [? - 45] = 40



(A)	85	or	-85
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(B) 85 or 5

(C) 5 or - 5

(D) 40 or 5

(E) None of these

52.  $[((3)^2)^6]^4 = 9^?$ 

(A) 28

**(B)** 16

(C) 12

(D) 24

(E) None of these

53.  $\sqrt{289} = ?$ 

 $(A)\left(\sqrt{17}\right)^2$ 

(B) (-8 -9)

(C) - 17

 $(D) \pm (\frac{153}{9})$ 

(E) None of these

54. ?% of (4)<sup>?</sup> = 51.2

(A) 15

(B) 8

(C) 5

(D) 10

(E) None of these

# 55. $\sqrt[4]{1296} = ?$

(A) 8



(B) 36

(C) 12

(D) 6

(E) None of these

Directions (Q.56 to 60): In the following number series only one number is wrong. Find out the wrong number.

56. 4 3 4.5 8.5 20 53 162.5

(A) 3

(B) 4.5

(C) 8.5

(D) 20

(E) 53

57. 12000 2395 472 89.8 12.96 -2.408 -5.4816

(A) -5.4816

(B) 472

(C) 12.96

(D) -2.408

(E) 2395

58. 1 8 28 99 412 2075 12460

(A) 28

(B) 99

(C) 412

(D) 2075

(E) 12460

59. 144215 540 1890 8505 46777.5 304053.75

(A) 215



(B) 540

(C) 1890

(D) 8505

(E) 46777.5

60. 22221879 1663 1538 14741447 1440

(A) 1879

(B) 1538

(C) 1474

(D) 1447

(E) 1440

61. In a college, the ratio of boys to girls is 31 : 23 respectively. When 75 more girls join the college, this ratio becomes 124 : 107. How many more girls should join the college to make the number of boys and girls equal?

(A) 75

**(B)** 90

(C) 60

(D) 85

(E) None of these

62. The compound interest accrued on an amount at the end of two years @ 12 p.c.p.a is Rs. 2,862. What is the amount?

- (A) Rs. 11,250
- (B) Rs. 12,200
- (C) Rs. 13,500
- (D) Rs. 10,000

(E) None of these

63. A 280 metres long train, travelling at a uniform speed, crosses a platform In 60 seconds and a man standing on the platform in 20 seconds. What is the length of the platform?



- (A) 640 metres
- (B) 420 metres
- (C) 280 metres
- (D) Cannot be determined
- (E) None of these

64. A triangle has two of its angles in the ratio of 1 : 2. If the measure of one of its angles is 30 degrees, what is the measure of the largest angle of the triangle in degrees ?

(A) 100 91

(B) 90

(C) 135 123

(D) Cannot be determined

(E) None of these

65. In how many different ways can the numbers '256974' be arranged, using each digit only once in each arrangement, such that the digits 6 and 5 are at the extreme ends in each arrangement ?

(A) 48

(B) 720

(C) 36

(D) 360

(E) None of these

Directions (Q.66 to 70): Study the given information carefully and answer the questions that follow: An urn contains 3 red, 6 blue, 2 green and 4 yellow marbles.

66. If two marbles are picked at random, what is the probability that both are green?

(A) 
$$\frac{2}{15}$$
  
(B)  $\frac{1}{15}$   
(C)  $\frac{2}{7}$   
(D) 1



### (E) None of these

67. If three marbles are picked at random, what is the probability that two are blue and one is yellow?

(A) 
$$\frac{2}{15}$$
  
(B)  $\frac{6}{91}$   
(C)  $\frac{12}{91}$   
(D)  $\frac{3}{15}$ 

(E) None of these

68. If four marbles are picked at random, what is the probability that at least one is yellow?

(A) 
$$\frac{6}{2}$$
  
(B)  $\frac{69}{91}$   
(C)  $\frac{125}{143}$   
(D)  $\frac{1}{4}$ 

(E) None of these

69. If two marbles are picked at random, what is the probability that either both are red or both are green?

(A) 
$$\frac{3}{5}$$
  
(B)  $\frac{4}{105}$   
(C)  $\frac{2}{7}$ 

$$(D)\frac{5}{91}$$

(E) None of these

70. If four marbles are picked at random, what is the probability that one is green, two are blue and one is red?

$$(A)\,\frac{4}{15}$$



 $(B)\frac{17}{280}$ 

$$(C) \frac{6}{91}$$

 $(D)\frac{11}{15}$ 

(E) None of these