

Test: HCF AND LCM

11. Find the greatest number that will divide 43, 91 and 183 so as to leave the same remainder in each case.
A. 4 B. 7
C. 9 D. 13
12. The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is:
A. 276 B. 299
C. 322 D. 345
13. The greatest number of four digits which is divisible by 15, 25, 40 and 75 is:
A. 9000 B. 9400
C. 9600 D. 9800
14. The product of two numbers is 4107. If the H.C.F. of these numbers is 37, then the greater number is:
A. 101 B. 107
C. 111 D. 185
15. The G.C.D. of 1.08, 0.36 and 0.9 is:
A. 0.03 B. 0.9
C. 0.18 D. 0.108
16. The product of two numbers is 2028 and their H.C.F. is 13. The number of such pairs is:
A. 1 B. 2
C. 3 D. 4
17. Find the lowest common multiple of 24, 36 and 40.
A. 120 B. 240
C. 360 D. 480
18. The least number which should be added to 2497 so that the sum is exactly divisible by 5, 6, 4 and 3 is:
A. 3 B. 13
C. 23 D. 33
19. The H.C.F. of two numbers is 11 and their L.C.M. is 7700. If one of the numbers is 275, then the other is:
A. 279 B. 283
C. 308 D. 318
20. The smallest number which when diminished by 7, is divisible 12, 16, 18, 21 and 28 is:
A. 1008 B. 1015
C. 1022 D. 1032

Test: Simplification

21. Which of the following fractions is greater than $\frac{3}{4}$ and less than $\frac{5}{6}$?

A. $\frac{1}{2}$

B. $\frac{2}{3}$

C. $\frac{4}{5}$

D. $\frac{9}{10}$

22. $617 + 6.017 + 0.617 + 6.0017 = ?$

A. 6.2963

B. 62.965

C. 629.6357

D. None of these

23. $0.002 \times 0.5 = ?$

A. 0.0001

B. 0.001

C. 0.01

D. 0.1

24. $34.95 + 240.016 + 23.98 = ?$

A. 298.0946

B. 298.111

C. 298.946

D. 299.09

25. How many digits will be there to the right of the decimal point in the product of 95.75 and .02554 ?

A. 5

B. 6

C. 7

D. None of these

Test: Age

26. The present ages of three persons in proportions 4 : 7 : 9. Eight years ago, the sum of their ages was 56. Find their present ages (in years).

A. 8, 20, 28

B. 16, 28, 36

C. 20, 35, 45

D. None of these

27. Ayesha's father was 38 years of age when she was born while her mother was 36 years old when her brother four years younger to her was born. What is the difference between the ages of her parents?

A. 2 years

B. 4 years

C. 6 years

D. 8 years

28. A person's present age is two-fifth of the age of his mother. After 8 years, he will be one-half of the age of his mother. How old is the mother at present?

A. 32 years

B. 36 years

C. 40 years

D. 48 years

Letter: C J O X N Q T Z F

38. 163542

a)XTJCNZ b)TXJCNZ c)XTJCZN d)XTCJNZ

39. 925873

a)ZQCFOJ b)QZCFOJ c) QZCOFJ d)QZCFJO

40. 741568

a)ONCXTF b) NOXCFT c)ONCFCT d)ONXCTF

Test: Directions

41. A man leaves for his office from his house. He walks towards East. After moving a distance of 20 m, he turns South and walks 10 m. Then he walks 35 m towards the West and further 5 m towards the North. He then turns towards East and walks 15 m. What is the straight distance between his initial and final positions?

- A.) 0 B.) 5
C.) 10 D.) None of these

42. Murari walked 40 m towards North, took a left turn and walked 20 m. He again took a left turn and walked for 40 km. How far and in which direction is he from the starting point?

- A.) 20 m West B.) 20 m South
C.) 20 m East D.) 20 m North

43. Nishitha walks 14 m towards west, then turns to her right and walks 14 m and then turns to her left and walks 10 m. Again turning to her left she walks 14 m. What is the shortest distance between her starting point and the present position?

- A.) 14 B.) 24
C.) 34 D.) 44

44. Vinay walks a distance of 3 km towards North, then he turns to his left and walks for 2 km. He again turns left and walks for 3 km. At this point he turns to his left and walks for 3 km. How many km is he from the starting point?

A.) 1 km B.) 2 km

C.) 3 km D.) 4 km

45. Dharma walks 10 km toward North. From there, he walks 6 km towards South. Then, he walks 3 km towards East. How far and in which direction is he with reference to his starting point?

A.) 2 km South-East B.) 5 km South-East

C.) 5 km North-East D.) 5 km West

Test: Choose or find odd number:

46. 8, 12, 16, 21, 24, 28, 32.

(a) 21 (b) 24 (c) 28 (d) 32

47. 111, 133, 143, 155, 188, 200.

(a) 111 (b) 143 (c) 200 (d) None of these.

48. 231, 121, 363, 253, 284, 352, 374.

(a) 121 (b) 284 (c) 374 (d) None of these.

49. Find the odd pair of numbers.

(a) 55 – 42 (b) 69 – 56 (c) 48 – 34 (d) 95 – 82

50. 3, 5, 11, 14, 17, 21

(a) 21 (b) 17 (c) 14 (d) 3

Test: Sitting Arrangements

Directions (Q. 51 -55) Study the following information carefully and answer the questions given below.

Bunty, Dev, Manav, Kavya, Payal, Qasturba, Wasir and Himmat are sitting around a circle facing at the centre. Manav is to the immediate right of Bunty who is 4th to the right of Kavya. Payal is 2nd to the left of Bunty and is 4th to the right of Wasir. Qasturba is 2nd to the right of Dev who is 2nd to the right of Himmat.

Q51. Who is 3rd to the right of Bunty?

a) Wasir b) Manav c) Kavya d) Himmat e) None of these

Q52. Which of the following represents the immediate neighbours of D?

a) Payal and Qasturba b) Kavya and Himmat c) Payal and Himmat
d) Kavya and Qasturba e) Payal and Kavya

III. Fourth to the left

IV. Second to the left

a) Only I

b) Only II

c) Only III

d) Both II and III

e) None of these

Test:- Series

61. QAR, RAS, SAT, TAU, _____

a) UAV b) UAT c) TAS d) TAT

62. SCD, TEF, UGH, _____, WKL

a) CMN b) UJI c) VIJ d) IJT

63. QPO, NML, KJI, _____, EDC

a) HGF b) CAB c) JKL d) GHI

64. JAK, KBL, LCM, MDN, _____

a) OEP b) NEO c) MEN d) PFQ

65. CMM, EOO, GQQ, _____, KUU

a) GRR b) GSS c) ISS d) ITT

Study the following arrangement carefully and answer the questions(66-70) given below.

B 5 R 1 @ E K 4 F 7 © D A M 2 P 3 % 9 H 1 W 8 * 6 U J \$ V Q #

66. Which of the following is the sixth to the left of the seventeenth from the left end of the above arrangement?

a) © b) 7 c) D d) A

67. Which of the following is exactly in the middle between 7 and \$ in the above arrangement?

a) % b) 9 c) H d) 3

68. Four of the following five are alike in a certain way based on their position in the above arrangement and so form a group. Which is the one that does not belong to that group?

a) PM3 b) KFE c) 6J* d) 7D4

69. How many such symbols are there in the above arrangement each of which is immediately preceded by a number but not immediately followed by a consonant?

a) ONE b) TWO c) THREE d) NONE OF THESE

70. How many such consonants are there in the above arrangement each of which is immediately followed by another consonant but not immediately preceded by a symbol?

a) ONE b) TWO c) THREE d) NONE OF THESE

Test:Sqaure Roots

71. If $x\sqrt{512}=\sqrt{648x}$, find the value of x.

A. 24

B. 12

C. 48

D. 36

72. $\sqrt{5.4756} = ?$

- A. 2.24 B. 1.24
C. 1.34 D. 2.34

73. If $3\sqrt{5} + \sqrt{125} = 17.88$, then what will be the value of $\sqrt{80} + 16\sqrt{5}$?

- A. 21.66 B. 13.41
C. 22.35 D. 44.7

74. The cube root of 0.000729 is

- A. 0.09 B. 0.9
C. 0.21 D. 0.11

75. What is the least perfect square which is divisible by each of 21, 36 and 66?

- A. 213444 B. 214434
C. 214344 D. 231444

76. $\sqrt{144} \times 11 \sqrt{225} \times 15 \sqrt{196}$ is equal to:

- A. 0.85 B. 0.72
C. 2.8 D. 0.4

77. $(\sqrt{7} - 1\sqrt{7})^2$ simplifies to:

- A. $36\sqrt{7}$ B. 736
C. 367 D. $7\sqrt{36}$

78. The square root of 16641 is

- A. 129 B. 121
C. 211 D. 229

79. $\sqrt{0.0576} \times ? = 0.24$.

- A. None of these B. 10
C. 1 D. 0.1

80. $\sqrt{0.000256} \times ? = 1.6$.

- A. 0.1 B. 10
C. 10000 D. 1000

Test: Trains

81. A train is running at a speed of 40 km/hr and it crosses a post in 18 seconds. What is the length of the train?

- A. 190 metres B. 160 metres
C. 200 metres D. 120 metres

82. A train, 130 meters long travels at a speed of 45 km/hr crosses a bridge in 30 seconds. The length of the bridge is

- A. 270 m
C. 235 m
- B. 245 m
D. 220 m

83. A train has a length of 150 meters . it is passing a man who is moving at 2 km/hr in the same direction of the train, in 3 seconds. Find out the speed of the train.

- A. 182 km/hr
C. 152 km/hr
- B. 180 km/hr
D. 169 km/hr

84. A train having a length of 240 m passes a post in 24 seconds. How long will it take to pass a platform having a length of 650 m?

- A. 120 sec
C. 89 s
- B. 99 s
D. 80 s

85. A train 360 m long runs with a speed of 45 km/hr. What time will it take to pass a platform of 140 m long?

- A. 38 sec
C. 44 sec
- B. 35 s
D. 40 s

86. Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively . If they cross each other in 23 seconds, what is the ratio of their speeds?

- A. Insufficient data
C. 1 : 3
- B. 3 : 1
D. 3 : 2

87. A jogger is running at 9 kmph alongside a railway track in 240 meters ahead of the engine of a 120 meters long train . The train is running at 45 kmph in the same direction. how much time does it take for the train to pass the jogger?

- A. 46
C. 18
- B. 36
D. 22

88. Two trains of equal length are running on parallel lines in the same direction at 46 km/hr and 36 km/hr. If the faster train passes the slower train in 36 seconds, what is the length of each train?

- A. 88
C. 62
- B. 70
D. 50

89. Two trains having length of 140 m and 160 m long run at the speed of 60 km/hr and 40 km/hr respectively in opposite directions (on parallel tracks). The time which they take to cross each other, is

- A. 10.8 s
C. 9.8 s
- B. 12 s
D. 8 s

90. Two trains are moving in opposite directions with speed of 60 km/hr and 90 km/hr respectively. Their lengths are 1.10 km and 0.9 km respectively. the slower train cross the faster train in --- seconds

- A. 56
C. 47
- B. 48
D. 26

Test: Simple Interest

91. How much time will it take for an amount of Rs. 900 to yield Rs. 81 as interest at 4.5% per annum of simple interest?

- A. 2 years
C. 1 year
- B. 3 years
D. 4 years

92. Arun took a loan of Rs. 1400 with simple interest for as many years as the rate of interest. If he paid Rs.686 as interest at the end of the loan period, what was the rate of interest?

- A. 8%
C. 4%
- B. 6%
D. 7%

93. A sum of money at simple interest amounts to Rs. 815 in 3 years and to Rs. 854 in 4 years. The sum is :

- A. Rs. 700
C. Rs. 650
- B. Rs. 690
D. Rs. 698

94. A sum fetched a total simple interest of Rs. 929.20 at the rate of 8 p.c.p.a. in 5 years. What is the sum?

- A. Rs. 2323
C. Rs. 2563
- B. Rs. 1223
D. Rs. 2353

95. Mr. Thomas invested an amount of Rs. 13,900 divided in two different schemes A and B at the simple interest rate of 14% p.a. and 11% p.a. respectively. If the total amount of simple interest earned in 2 years be Rs. 3508, what was the amount invested in Scheme B?

- A. Rs. 6400
C. Rs. 6500
- B. Rs. 7200
D. Rs. 7500

96. A person borrows Rs.5000 for 2 years at 4% p.a. simple interest. He immediately lends it to another person at $6\frac{1}{4}\%$ p.a for 2 years. Find his gain in the transaction per year.

- A. Rs. 167.50
C. Rs.225
- B. Rs. 150
D. Rs. 112.50

97. What will be the ratio of simple interest earned by certain amount at the same rate of interest for 5 years and that for 15 years?

- A. 3 : 2
C. 2 : 3
- B. 1 : 3
D. 3 : 1

98. A sum of money amounts to Rs.9800 after 5 years and Rs.12005 after 8 years at the same rate of simple interest. The rate of interest per annum is

- A. 15%
C. 8%
- B. 12%
D. 5%

99. A certain amount earns simple interest of Rs. 1200 after 10 years. Had the interest been 2% more, how much more interest would it have earned?

- A. Rs. 25
C. Rs. 120
- B. None of these
D. Cannot be determined

100. A man took loan from a bank at the rate of 8% p.a. simple interest. After 4 years he had to pay Rs.

6200 interest only for the period. The principal amount borrowed by him was:

A. Rs.17322

B. Rs.20245

C. Rs.18230

D. Rs.19375