



**SSC PHASE VII 2019 EXAM PAPER : Held on 14 October-2019 Shift-2**

**:: Quantitative Aptitude Basic Arithmetic Skills ::**

**Q1. The average of 7 consecutive numbers is 20. The largest of these numbers is:**

- a. 25
- b. 20
- c. 21
- d. 23

**Q2. If a nine-digit number  $785x3678y$  is divisible by 72, then the value of  $(7x - 5y)$  is:**

- a. 22
- b. 20
- c. 15
- d. 25

**Q3. A trader marks his goods at 35% above the cost price. He sells 80% of the goods at the marked price and rest, he sells by allowing 35% discount on the marked price. His profit percent is:**

- a. 27.55
- b. 25.55
- c. 20
- d. 35

**Q4. A sum of Rs. 12500 is distributed among A, B, C & D such that A gets Rs. 800 more than what B gets, C get twice of what B get and D get Rs. 900 more than what A gets. The ratio in which D, C, B & A receive the sums is:**

- a. 28 : 40 : 20 : 37
- b. 28 : 20 : 40 : 37
- c. 37 : 20 : 40 : 28
- d. 37 : 40 : 20 : 28

**Q5. If the seven digit number  $5x634y2$  is divisible by 88 such that  $x$  is not equal to  $y$ , then what is the value of  $(2y - 3x)$ ?**

- a. 1.
- b. 8
- c. 15
- d. 6

**Q6. A shopkeeper earns a profit of 15% on selling a book at a 15% discount on the printed price. The ratio of the cost price and the printed price of the book is :**

- a. 20 : 23
- b. 23 : 20
- c. 23 : 17
- d. 17 : 23

**Q7. A can finish a work in 15 days and B can do the same work in twice the time taken by A, then working together, what part of the same work they can finish in five days?**

- a.  $\frac{1}{2}$
- b.  $\frac{4}{5}$
- c.  $\frac{1}{3}$
- d.  $\frac{1}{5}$

**Q8. A student cover a distance by cycle at 6 km/hr. He returns to the starting point in a bus at a speed of 42 km/hr. The average speed for the entire journey is:**

- a. 12.75
- b. 24
- c. 10.25
- d. 10.5

**Q9. The three numbers A, B, C are in the ratio  $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$ . The difference between the greatest and smallest number is 21. The three numbers A, B, C respectively are:**

- a. 56, 42, 63
- b. 63, 56, 42
- c. 42, 63, 56
- d. 42, 56, 63

**Q10. A sum of Rs. 825 is lent in the beginning of the year at a certain rate of interest. After 8 month, a sum of Rs. 412.50 more is lent but at a rate twice the former. At the end of the year, Rs. 35.75 is earned as interest from both the loans. What was the original rate of interest?**

- a. 3%
- b. 3.25%
- c. 3.50%
- d. 3.15%

**Q11. If 7 men and 4 women working together, can do five times as much work per hour as one man and one woman together, then the ratio of the work done by a man and that of a woman for a given time is:**

- a. 2 : 3
- b. 3 : 2
- c. 2 : 1
- d. 1 : 2

**Q12. There are 1550 boys and girls in a school. The number of girls exceeds the number of boys by 500. What is the percentage of girls in the school?**

- a. 67%
- b. 66%
- c. 54%
- d. 65%

**Q13. The average of six numbers is 36. If one number is excluded, the average becomes 37. What is the excluded number?**

- a. 37
- b. 36
- c. 35.5
- d. 31

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**Q14. If a person sells a pen drive for Rs. 3192, making a profit of 33%, then the cost price of the pen drive is:**

- a. 2400
- b. 2800
- c. 3200
- d. 3600

**Q15. A train X running at 72km/hr crosses another train Y running at 54km/hr in opposite direction in 15 seconds. If the length of Y is two-fifths that of X, then what is the length of X?**

- a. 375
- b. 150
- c. 300
- d. 225

**Q16. What is the area of a sector of a circle, with central angle  $75^\circ$ , what the diameter of the circle is 9 cm?**

- a.  $182\pi/32$
- b.  $125\pi/16$
- c.  $185\pi/16$
- d.  $135\pi/32$

**Q17. If 3.4% of 600 of 2.5% of  $x = 382.5$ , then the value of  $x$  is:**

- a. 800
- b. 775
- c. 825
- d. 750

**Q18. If  $a + b + c = 7$ , and  $a^2 + b^2 + c^2 = 33$ , then what is the value of  $a^3 + b^3 + c^3 - 3abc$ ?**

- a. 257
- b. 287
- c. 343
- d. 175

**Q19.** A shopkeeper sold an article for Rs. 540 at some profit. Had he sold it for Rs. 470, then there would have been a loss equal to one-sixth of the initial profit. What was the cost price of the article?

- a. 525
- b. 480
- c. 505
- d. 540

**Q20.** If  $x - x^{-1} = 6$ , then the value of  $x^4 + x^{-4}$  is:

- a. 1158
- b. 1154
- c. 1440
- d. 1442

**Q21.** The average of fourteen numbers is 46. The average of the first five is 43 and that of last six number is 49.5. The sixth and seventh numbers are respectively 4 and 8 greater than the eighteen number. What is the average of sixth and seventh numbers?

- a. 46
- b. 48
- c. 52
- d. 51

**Q22.** The difference between the compound interest and simple interest on Rs.  $x$  at 8.5% per annum for 2 years is 65.025. What is the value of  $x$ ?

- a. 8625
- b. 8500
- c. 9000
- d. 8725

**Q23.** If each side of a rectangular field is increased by 32%, then by how much percent does the area of the field increase?

- a. 64%
- b. 72.84%
- c. 67.74%
- d. 74.24%

**Q24. A man get a discount of 32% and then 25% on his shopping bill of Rs. 5000. What is the total discount percentage he got?**

- a. 57%
- b. 49%
- c. 7%
- d. 45%

**Q25. If a person invest Rs. 33250 in an account that yield 7.4% p.a. Simple interest, then how much does he has after 5 years?**

- a. 45552.5
- b. 12302.5
- c. 42255.5
- d. 47225.25

**ANSWER:**

**1. (d), 2. (a), 3. (b), 4. (d), 5. (d), 6. (d), 7. (a), 8. (d), 9. (d), 10. (b)  
11. (d), 12. (b), 13. (d), 14. (a), 15. (a), 16. (d), 17. (d), 18. (d), 19. (b), 20. (d)  
21.(a), 22. (c), 23. (d), 24. (b), 25. (a)**



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