Quantitative Aptitude Sunday Quiz for SSC CHSL

Q1. 317 ×317 + 283 × 283 =?
(a) 180578
(b) 190978
(c) 200979
(d) 190578

Q2. Find the sum of all the prime numbers between 50 and 65?
(a) 183
(b) 173
(c) 201
(d) 2011

Q3. The unit digit in the product $(5197)^{274}$?

(a) 1
(b) 7
(c) 9
(d) 3

Q4. The sum of even numbers between 1 and 71 is?
(a) 1261
(b) 1290
(c) 1260
(d) 1230

Q5. Find the H.C.F of $\frac{3}{8}, \frac{9}{16}, \frac{81}{20}$ and $\frac{15}{32}$?

(a) 3/80
(b) 3/120
(c) 3/160
(d) 3/200

Q6. If 2.5P = 0.03Q, then the value of $\frac{Q-P}{Q+P}$ is:

(a) 257/253
(b) 247/253
(c) 237/253
(d) None of these

Q7. The average of 21, 3, 4, x and y is 9 and the average of 3, 5, 7 and x is 7. Then, find the difference between x & y?
(a) 9
(b) 12
(c) 10
(d) 7

Q8. Find the average of first 100 natural number?
(a) 50.5
(b) 50.6
(c) 50
(d) 51

Q9. The average of eight numbers is p and the average of four of these is q. If the average of other four numbers is s, then which of the following is true?
(a) p = s + q
(b) 2p = q + s
(c) p = 2s + 2q
(d) None of these

Q10. The product of two numbers is 225 and the ratio between them is 3: 5. Find difference between both numbers.
(a) $2\sqrt{15}$
(b) $3\sqrt{15}$
(c) $5\sqrt{15}$
(d) $8\sqrt{15}$

Q11. Two right circular cylinders of equal volume have their heights in the ratio 1 : 2. The ratio of their radii is :
(a) $\sqrt{2}$:1
(b) 2 : 1
(c) 1 : 2
(d) 1 : 4

Q12. A hollow iron pipe is 21 cm long and its exterior diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs 8 g/cm³, then the weight of the pipe is $\left(\text{Take } \pi = \frac{22}{7} \right)$
(a) 3.696 kg
(b) 3.6 kg
(c) 36 kg
(d) 36.9 kg

Q13. Two iron sheets spherical in shape each of diameters 6 cm are immersed in the water contained in a cylindrical vessel of radius 6 cm. the level of the water in the vessel will be raised by
(a) 1 cm
(b) 2 cm
(c) 3 cm
(d) 6 cm

Q14. The radii of the base of two cylinders A and B are in the ratio 3 : 2 and their height in the ratio n : 1. If the volume of cylinder A is 3 times that of cylinder B, the value of n is
(a) 4/3
(b) 2/3
(c) 3/4
(d) 3/4

Q15. Water is being pumped out through a circular pipe whose internal diameter is 7 cm. If the flow of water is 12 cm per second. How many litres of water is being pumped out in one hour ?
(a) 1663.2
(b) 1500
(c) 1747.6
(d) 2000

Q16. The lateral surface area of a cylinder is 1056 cm² and its height is 16 cm. Find its volume.
(a) 4545 cm^3
(b) 4455 cm^3
(c) 5445 cm^3
(d) 5544 cm^3

Q17. From a solid cylinder whose height is 12 cm and diameter 10 cm, a conical cavity of same height and same diameter of the base is hollowed out. The volume of the remaining solid is approximately $\left(\pi = \frac{22}{7}\right)$
(a) 942.86 cm²
(b) 314.29 cm²
(c) 628.57 cm²
(d) 450.76 cm²

Q18. The curved surface area and the total surface area of a cylinder are in the ratio 1 : 2.If the total surface area of the right cylinder is 616 cm², then its volume is :
(a) 1232 cm^3
(b) 1848 cm^3
(c) 1632 cm^3
(d) 1078 cm^3

Q19. If diagonal of a cube is $\sqrt{12}$ cm, then its volume in cubic cm is :

(a) 8
(b) 12
(c) 24
(d) $\sqrt[3]{2}$

Q20. If the volume of two cubes are in the ratio 27 : 1, the ratio of their edge is :

(a) 3 : 1
(b) 27 : 1
(c) 1 : 3
(d) 1 : 27