
	<div>Selvam College Of Technology, Namakkal (Autonomous) IT Support & Development Training Programme (ISDTP)</div>		
Work Sheet - 5			
Subject Name	Proficient Bundle V2 (2025) - Interview Skills in Aptitude V2	Semester	VIII

Answer Key

- If $2^k \times 4^{12} = 16^{11}$, then what is the value of K?
A)10 B)16 C)24 D)20
Ans: D) 20
- Two pipes A and B can fill a tank for 37 min & 45 min respectively. Both pipes are open together. After how much time if pipe B is closed, the tank will be filled in just half an hour?
A)10 B)5 C)9 D)15
Ans: C) 9
- Anu is two years older than Kanu. Kanu is twice as old as Tanu. If the sum of their ages is 32, then what is Kanu's age?
A)8 B)7 C)14 D)12
Ans: D) 12
- What must be subtracted from $-5/6$ to get 1? A)-7/6 B)7/6 C)-1/6 D)-11/6
Ans: D)-11/6
- If A earns $33\frac{1}{3}\%$ more than B, then by what Percent B earns less than A?
A)33 $\frac{1}{3}\%$ B)25% C)50% D)16 $\frac{2}{3}\%$
Ans: B)25%
- In an election between two candidates got 38% of the votes and yet lost by 7200 votes. If all the votes cast were valid, find the total number of votes cast in the elections.
A)16200 B)13200 C)13000 D)30000
Ans: D) 30000
- What is the mode of the given observation 2,6,3,9,5,6,7,8,9,6,6,6&11?
A) 6 B)11 C)3 D)5
Ans:A) 6
- The difference between two numbers is 46 and their ratio is 5:3. Find the smaller number.
A) 69 B)63 C)46 D)36
Ans: A) 69
- Simplify the following expression. 9994×10006
A) 9999964 B) 9999976 C) 91999924 D) 999924
Ans: A) 9999964
- In a college entrance exam, the average marks obtained by all the 30 boys in the class are 5 less than the average marks obtained by all the 20 girls in the class. If the average mark of the entire class is 25, find the ratio of the average marks of the boys to the average marks of the girls.
A) 28:23 B) 23:28 C) 23:41 D) 41:32
Ans: B) 23:28

11. Find the fourth proportional to 15, 25, and 12.

A) 15

B) 25

C) 20

D) 30

Ans: C) 20

12. What is the smallest three-digit natural number which is exactly divisible by 8 and 12?

A) 108

B) 124

C) 120

D) 144

Ans: C) 120

13. Simplify the given expression. $5+9-9\div 3\times 4$

A) 2

B) 3

C) 6

D) 5

Ans: A) 2

14. If the diameter and height of a cylinder are 10 cm and 10.5 cm respectively, find the volume of the cylinder, using (pie=22/7)

A) 785

B) 825

C) 985

D) 888

Ans: B) 825

15. Pipe A is 3 times faster than Pipe B. Both pipes together fill a tank in 36 min. How much time will pipe A alone take to fill the tank?

A) 156

B) 100

C) 80

D) 48

Ans: D) 48

16. $(X-Y)(X+Y)(X^2+Y^2)(X^4+Y^4)$ is equal to which of the following?

A) $(X^{16} - Y^{16})$

B) $(X^8 - Y^8)$

C) $(X^8 + Y^8)$

D) $(X^{16} + Y^{16})$

Ans: B) $(X^8 - Y^8)$

17. The average of the two numbers is m. if one number is N, then what is the other number?

A) $2M-N$

B) $2N$

C) $2M$

D) $M-N$

Ans: A) $2M-N$

18. Two trains of length 135m and 155 m respectively, one at a speed of 80km/hr and the other at a speed of 65 km/h are moving in opposite directions. In how much time from the moment of meeting of the two trains will they cross each other completely?

A) 7.2

B) 6.8

C) 7.5

D) 6.5

Ans: A) 7.2

19. For a candidate to pass the exam, he must get 55% marks. If he gets 120 marks and fails by 78 marks, then what are the total marks of the exam?

A) 300

B) 400

C) 320

D) 360

Ans: D) 360

20. In ΔABC if $\angle A = 60^\circ$ and $\angle B = 70^\circ$, find the measure of exterior angle B.

A) 110°

B) 140°

C) 40°

D) 90°

Ans: A) 110°