
	<b>Selvam College Of Technology, Namakkal</b> (Autonomous) IT Support & Development Training Programme (ISDTP)	
<b>Worksheet - 7</b>		
<b>Subject Name</b>	Proficient Bundle V2 (2025) - Interview Skills in Aptitude V2	<b>Semester</b> VIII

### Answer key

1. If each vowel in the word **CONSTRUCTION** is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order, then which of the following letters will be sixth from the right in the group of letter thus formed? A) S      B) B      C) Q      D) V

**Ans: D)V**

2. (Left) 9 # 1 2 @ 8 \$ 7 & 3 Ω & % 4 6 \* £ 5 (Right) How many such symbols are there, each immediately preceded by an even number but not immediately followed by an odd number?  
A) Zero      B) Two      C) One      D) More than two

**Ans: B) Two**

3. All 41 people are standing in a row, facing north. Juno is 23<sup>rd</sup> from the right end, while Cherry is 31<sup>st</sup> from the left end. How many people are there between Juno and Cherry?  
A) 11      B) 12      C) 10      D) 13

**Ans: A) 11**

4. If the mode of the following data is 7, then find the value of k. 2, 4, 6, 7, 5, 6, 10, 6, 7, (2k +1), 9, 7, 13.  
A) 3      B) 6      C) 2      D) 4

**Ans: A) 3**

5. Find the perimeter of a rhombus whose diagonals are of lengths 6cm and 8cm.  
A) 24 cm      B) 25 cm      C) 20 cm      D) 26 cm

**Ans: C) 20 cm**

6. What is the value of the following?  $(x-y)(x+y)+(y-z)(y+z)+(z-x)(z+x)$   
A)  $XY+YZ+ZX$       B)  $X+Y+Z$       C)  $x^2+y^2+z^2$       D) 0

**Ans: D)0**

7. If  $LCM(27,n)=54$  and  $HCF(27,n)=9$ , Then Find the value.  
A) 18      B) 54      C) 36      D) 24

**Ans: A)18**

8. Find the volume of a sphere whose diameter is 84 cm.  
A)  $323434 \text{ cm}^3$       B)  $338808 \text{ cm}^3$       C)  $310464 \text{ cm}^3$       D)  $313418 \text{ cm}^3$

**Ans: C)310464 cm<sup>3</sup>**

9.  $x : 676 :: 17 : y$  A)  $x=21, y=396$       B)  $x=25, y=324$       C)  $x=23, y=400$       D)  $x=28, y=361$

**Ans: C)x=23, y=400**

10. In a certain code language, 'ARGOT' is coded as '12497', and 'GRAFT' is coded as '29374'. What is the code for 'F' in the given language? A)7 B)3 C)4 D)2

**Ans: B)3**

11. M, S, A, F, J, H, and D are seven family members living in the same apartment. M is S's husband. H is J's wife. S is the mother of J and the daughter of A. D is the brother of H. F is the wife of A. How is D related to J? A) Wife's brother B) Father C) Husband D) Brother

**Ans: A) Wife's brother**

12. The quadratic equation whose roots are 9 and 11 is\_\_\_\_\_.

A) $x^2 - 20x + 99 = 0$  B) $x^2 + 20x + 100 = 0$  C) $x^2 - 20x + 98 = 0$  D) $x^2 + 20x - 99 = 0$

**Ans: A) $x^2 - 20x + 99 = 0$**

13. Which of the following terms will replace the question mark (?) in the given series? PU16, QV18, RW22, SX28, ? A)TZ36 B)TZ37 C)TY36 D)TY37

**Ans: C)TY36**

14.  $\triangle ABC$  is such that  $AB = 5$  cm,  $BC = 4$  cm, and  $CA = 4.5$  cm.  $\triangle XYZ$  is similar to  $\triangle ABC$ . If  $YZ = 8$  cm, then find the perimeter of  $\triangle XYZ$ . A) 28 cm B) 27 cm C) 26 cm D) 25 cm

**Ans: B) 27 cm**

15. K is the husband of S. B is the sister of T. Q is the daughter of E. T is the brother of E. S is the mother of B. How is T related to K? A)Brother B)Father C)Son D)Daughter

**Ans: C)Son**

16. If the 15th and 28th terms of an A.P. are 208 and 416 respectively, then its 49th term is: A)755 B)749 C)752 D)751

**Ans: C)752**

17. The first and last terms of an A.P. are 20 and 55. If the sum of its terms is 600, then the number of terms will be? A)15 B)16 C)17 D)14

**Ans: B)16**

18. In a certain code language, 'R + S' means 'R is the mother of S', 'R @ S' means 'R is the husband of S', 'R # S' means 'R is the sister of S' and 'R % S' means 'R is the father of S'. How is N related to P if 'M # N + O % P @ Q # T'?

A) Father's sister B) Mother C) Sister D) Father's mother

**Ans: D) Father's mother**

19. In two triangles ABC and DEF, if  $AB = EF$ ,  $CB = DF$  and  $CA = DE$ , then:

A)  $\triangle ABC = \triangle DEF$  B)  $\triangle DEF = \triangle BCA$  C)  $\triangle BAC = \triangle FDE$  D)  $\triangle CBA = \triangle DFE$

**Ans: D)  $\triangle CBA = \triangle DFE$**

20. In a row of 37 persons, Aneesha is 12<sup>th</sup> from the left end. What is her position from the right end?

A) 16 B) 26 C) 27 D) 24

**Ans: B) 26**