Series and progression

Q1. Locate the ninth term and sixteenth term of the A.P. 5,8,11, 14, 17...
(a) 40 (b) 50 (c) 60 (d) 70
Q2. Which term of the A.P. 4,9,14, 19 ... is 109?
(a) 22nd (b) 23rd (c) 24th (d) 25th
Q3. What numbers of term arrive in the A.P. 7, 13, 19, 25... 205?
(a) 34 (b) 35 (c) 36 (d) 37
Q4. The sixth term of an A.P. is 12 and its eighth term is 22. Locate its first term, normal contrast and sixteenth term.
(a) 61 (b) 62 (c) 63 (d) 64
Q5. Discover the sum of the arrangement = 2+5+8+...+182.
(a) 5612 (b) 5712 (c) 5812 (d) 5912
Q6. Discover three numbers in A.P. whose sum is 15 and item is 80.
(a) 1,4 and 9 or 9,4, and 1 (b) 3,5 and 9 or 9,5, and 3
(c) 3,6 and 9 or 9,6, and 3 (d) 2,5 and 8 or 8,5, and 2
Q7. On the off chance that the fourth and ninth terms of A G.P. are 54 and 13122 individually, locate the first term, regular proportion and its sixth term.
(a) 476 (b) 486 (c) 496 (d) 506
Q8. 105th term of the A.P. 4, 9/2, 5, 11/2, 6 ....is
(a) 56 (b) 111/2 (c) 119/2 (d) 55
Q9. In the event that the fourth term of a number juggling movement is 14 and its twelfth term is 70, then its first term is:
(a) -10 (b) -7 (c) 7 (d) 10
Q10. Aggregate number of whole numbers somewhere around 100 and 200 which are distinct by both 9 and 6 is:
(a) 5 (b) 6 (c) 7 (d) 8
Q11. The estimation of $(1^3+2^3+3^3+? ? ..+15^3)$ - (1+2+3+...+15) =?
(a) 12280 (b) 13280 (c) 14280 (d) 14400
Q12. The total 5+6+7+8+.....+19=?
(a) 150 (b) 170 (c) 180 (d) 190
Q13. What is the 8^{th} term of the G.P. 3, 6, 12, 24……?
(a) 184 (b) 284 (c) 384
(d) More than one of the above (e) None of the above
Q14. The total 5+6+7+8+.....+19=?
(a) 150 (b) 170 (c) 180 (d) 190
Q15. If first term of a G.P. is 20 and common ratio is 4. Find the 5^{th} term.
(a) 10240 (b) 40960 (c) 5120 (d) 2560

Q16. If a sequence is in the form $2*5^n$ then which of the following may be the sequence?
(a) Arithmetic progression (b) Geometric Progression

(c) Harmonic Progression (d) Special Progression

Q17. 6. If a=3 and r=2 then find the sum up 5^{th} term.
(a) 95 (b) 82 (c) 93 (d) 97
Q18. Which term of G.P. 25, 125, 625, ……. is 390625?
(a) 5 (b) 6 (c) 7 (d) 8
Q19. In a G.P., 5^{th} term is 27 and 8^{th} term is 729. Find its 11^{th} term.
(a) 729 (b) 2187 (c) 6561 (d) 19683
Q20. How many terms of G.P. 2,4,8,16, …… are required to give sum 254?
(a) 4 (b) 5 (c) 6 (d) 7
Q21. If the sum of three numbers in an A.P. is 9 and their product is 24, then numbers are
(a) 2, 4, 6 (b) 1, 5, 3 (c) 2, 8, 4 (d) 2, 3, 4
Q22. The n^{th} term of an A.P. 5, 2, -1, -4, -7 … is
(a) 2n + 5 (b) 2n – 5 (c) 8 – 3n (d) 3n – 8
Q23. The 10^{th} term from the end of the A.P. -5, -10, -15,…, -1000 is
(a) -955 (b) -945 (c) -950 (d) -965
Q24. The sum of all two digit odd numbers is
(a) 2575 (b) 2475 (c) 2524 (d) 2425
Q25. If 2x, x + 10, 3x + 2 are in A.P., then x is equal to
(a) 0 (b) 2 (c) 4 (d) 6
Q26. If 7 times the 7^{th} term of an A.P. is equal to 11 times its 11^{th} term, then 18^{th} term is
(a) 18 (b) 9 (c) 77 (d) 0
Q27. A man ate 100 bananas in five days, each day eating 6 more than the previous day. How many bananas did he eat on the first day?
(a) 12 bananas (b) 16 bananas (c) 8 bananas (d) 24 bananas
Q28. A, B, C and D are four consecutive even numbers respectively and their average is 65. What is the product of A and D?
(a) 4224 (b) 4200 (c) 4216 (d) 4500
Q29. The average of 5 consecutive odd numbers A, B, C, D and E is 47. What is the product of A and D?
(a) 2021 (b) 2193 (c) 2107 (d) 2397
Q30. The sum of 3 consecutive even numbers is 44 more than the average of these numbers. What will be the highest of these numbers?
(a) 20 (b) 22 (c) 24 (d) 26

Answer key

1	B	7	B	13	C	19	D	25	D
2	A	8	A	14	C	20	D	26	D
3	A	9	B	15	C	21	D	27	C
4	B	10	B	16	B	22	C	28	C
5	A	11	C	17	C	23	A	29	C
6	D	12	C	18	C	24	B	30	C