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| ATOMIC ENERGY CENTRAL SCHOOL. |
| SUBJECT: MATHEMATICS |
| CLASS: X CHAPTER: ARITHMETIC PROGRESSION MAX. MARKS:15 |
| WORK SHEET -4  |

CHOOSE THE CORRECT OPTION.

1. $ $ The nth term of an AP is given by an= 5n-3, then the sum of first 10 terms is

a. $ $ 225 b.$ $ 245 c. 255 d.270 (1 mark)

2. $ $ If the first term of an AP is-5 and the common difference is 2, then the sum of its first 6 terms

 a. 0 b. 5 c.6 d. 15 (1 mark)

3. $ $ In an AP,a = 3 and S8 =192, then d is

 a. 8 b. 6 c. 7 d. 4 (1 mark)

4. If the nth terms of the two APs 9,7,5,……. and 24,21,18,…..are same, then find the value of n. Also, find that term. (2 marks)

5. If an=3-4n, then show that a1,a2,a3,…..form an AP. Also, find S20. (2 marks)

6. In an AP, if Sn = n(4n+1), then find the AP. (2 marks)

7 .Find the sum of all two digit numbers greater than 50 which when divided by 7 leaves a remainder 4.(3 marks)

8. The sum of the first fifteen terms of an AP is 750 and its first term is 15, find its 20th term. (3 marks)

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