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| ATOMIC ENERGY CENTRAL SCHOOL. |
| SUBJECT: MATHEMATICS |
| CLASS: X CHAPTER: ARITHMETIC PROGRESSION MAX. MARKS:15 |
| WORK SHEET -5 |

CHOOSE THE CORRECT OPTION.

1. $ $If 7 times the seventh term of an AP is 11 times the 11th term, then its 18th term will be

a. $ $ 7 b.$ $ 11 c. 18 d.0 (1 mark)

2. $ $ In an AP if a=1, an =20 and Sn=399, then n is

 a. 19 b. 21 c.38 d. 42 (1 mark)

3. The sum of the multiples of 4 that lie between 10 and 250 is\_\_\_ (1 mark)

4. How many terms of the AP 27,24,21,….. should be taken so that their sum is 0? . (2 marks)

5.Find the sum of first 22 terms of an AP in which d=7 and a22=149 . (2 marks)

6. The 14th term of AP is twice its 8th term. If its 6th term is -8, then find the sum of its 20 terms. (2 marks)

7. Find the common difference of an AP whose first term is 5 and the sum of its first four terms is half the sum of next four terms.(3 marks)

8. Yashoda saves Rs.32 during the first month, Rs.36 in the second month, Rs.40 in the third month. If she continues to save in this manner, in how many months will she save Rs. 2000? (3 marks)

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