## (BQC10-0016E)

- For the following series determine the sum till the 13<sup>th</sup> term:
  - 9, 13, 17...
  - A) 100
  - B) 190
  - C) 590
  - D) 429

# (BQC10-0017E)

- Let  $a_n$  be an arithmetic progression. If  $a_1=4$  and  $a_2=7$ , determine  $a_{11}$ 
  - A) 28
  - B) 31
  - C) 34
  - D) 37

# (BQC10-0018E)

- Let  $a_n$  be an arithmetic progression, for which d=12 and  $a_3$ =43. Find  $a_1$ 
  - A) 19
  - B) 31
  - C) 43
  - D) 67

## (BQC10-0019E)

- Let  $a_n$  be an arithmetic progression, for which  $a_1=15$  and d=3. Find the sum of the first 10 elements.
  - A) 42
  - B) 285
  - C) 300
  - D) 705



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#### (BQC10-0020E)

- Find the difference *d* of an arithmetic progression a<sub>n</sub>, for which a<sub>1</sub>=9 and S<sub>5</sub>=15
  - A) -3
  - B) 1
  - C) 3
  - D) 10

# (BQC10-0021E)

- If an is an arithmetic progression, for which a10=15 and a5=5, find a1
  - A) -3
  - B) 1
  - C) 3
  - D) 10

# (BQC10-0022M)

- An AP consists of 25 terms of which the 4<sup>th</sup> term is 4 and 22<sup>nd</sup> term is 5. The 19<sup>th</sup> term will be
  - A)  $\frac{29}{6}$
  - B) B)  $\frac{25}{6}$
  - C)  $4\frac{5}{6}$
  - D) A & C

## (BQC10-0023E)

- In an AP, the fifth term is 22 and the tenth term is 47. The sixteenth term will be
  - A) 64
  - B) 69
  - C) 73
  - D) 77

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## (BQC10-0024E)

- The sum to infinity of a GP is four times the first term. Find the common ratio.
  - A) ½
  - B) 6/7
  - C) 3/8
  - D) ¾

## (BQC10-0025M)

- The sum to infinity of the GP  $-1, -\frac{1}{2}, -\frac{1}{4}, \dots$  is
  - A) 2
  - B)  $-2\frac{1}{3}$
  - C)  $-2\frac{2}{3}$
  - D) 3

## (BQC10-0026H)

- A boy has 231 marbles. He arranged them in rows so that each row contains one marble less than preceding. The last row consists of one marble only, which form of the vertex of triangle. How many marbles are there in the base of triangle?
  - A) 21
  - B) 22
  - C) 23
  - D) 20

## (BQC10-0027M)

• After striking the floor, a rubber ball rebounds to 4/5<sup>th</sup> of the height form which it has fallen. Find the total distance that it travels before coming to rest it has been gently dropped from a height of 120 meters.

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- A) 540
- B) 960
- C) 1080
- D) 1020

## (BQC10-0028M)

- Jason runs 1 mile, then he runs ½ mile more, then he runs ¼ mile more, and so on. If he continues this process indefinitely, how far will he run?
  - A) 1.5
  - B) 2
  - C) 2.5
  - D) 3

## (BQC10-0029H)

- A person pays \$ 975 in monthly installments. Where each installment is less than the former by \$ 5. The amount of first installment is \$ 100. In what time will the entire amount be paid?
  - A) 26 months
  - B) 15 months
  - C) Both 26 and 15 months
  - D) 18 months

#### (BQC10-0030E)

- In the sequence  $\frac{1}{8}, \frac{1}{4}, \frac{1}{2}, \dots$  each term after the first is equal to the previous times a constant. What is the value of 13<sup>th</sup> term?

  - A) 228
  - B) 256
  - C) 512
  - D) 1024





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Answer Key	
1	D
2	С
3	Α
4	В
5	Α
6	Α
7	D
8	D
9	D
10	Α
11	Α
12	С
13	В
14	В
15	С

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