CBSE NET December 2015 PAPER II

Q.Which of the following property/ies a Group G must hold, in order to be an Abelian group? (a) The distributive property (b) The commutative property (c) The symmetric property Codes:
(A) (a) and (b)
(B) (b) and (c)
(C) (a) only
(D) (b) only

Ans :- (D)

Explanation:-
A Group has 4 properties, namely closure, associativity, existence of identity,existence of inverse. When a Group hold commutative property too, then it’s known as Commutative group or Abelian group.

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56. Prove that- A∩(B∪C) = (A∩B) ∪ (A∩C)
57. prove that – (A∩B)X(C∩D) = (AXC)∩(BXD)
58. Show that- (P∩Q)X(R∩S) = (PXR)∩(QXS)
59. Binary operations
60. Algebraic structure
61. Group
62. Show that (…, -4, -3, -2, -1, 0, 1, 2, 3, 4,…} is group
63. Show that a*b=b*a
64. if a*c = c*a and b*c = c*b, then (a*b)*c = c*(a*b)

65. Undirected Graph and Incident Matrix
66. Prove the following by using the principle of mathematical induction for all n ∈ N, $1^3 + 2^3 + 3^3 + \ldots + n^3 = [n (n + 1)/2]^2$
67. Prove that $G=\{-1,1,i,-i\}$ is a group under multiplication.
68. Hasse diagram for the “less than or equal to” relation on the set S= { 0,1,2,3,4,5}