Name:_____ ID#:_____

The stem-and-leaf display below represents the number of cargo companies (range from 16 to 32) approved by customs inspectors of a certain port in a sample of 35 days.

Stem	Leaves
1	6 7 8 8 9
2	0 0 1 1 1 2 2 2 2 3 3 3 3 4 4 4
2	5 5 6 6 6 7 8 8 9 9
3	1 1 2 2

(1) Referring to the above Scenario, the value of mode is equal to

    A) 22
    B) 2
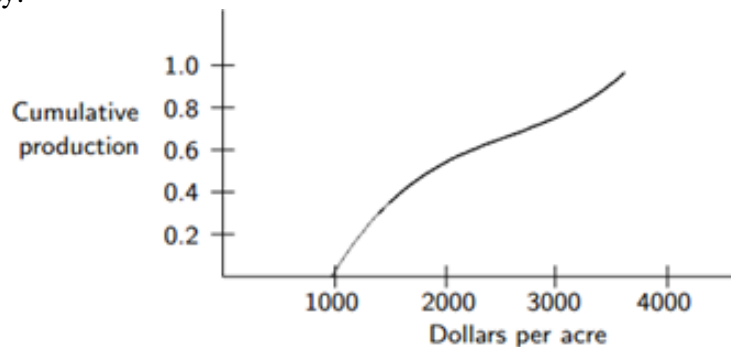   C) 16
    D) 35
    E) None of the others

(2) Referring to the above Scenario, the value of upper quartile is equal to

    A) 27
    B) 23
    C) 19
    D) 32
    E) None of the others.

(3) The graph below shows cumulative proportion plotted against land values (in dollars per acre) for farms on sale in a rural community.
What is the median land value?

    A) $1900
    B) $3000
    C) $3100
    D) $2600
    E) $1000

(4) If the age distribution of customers at a major retail chain is thought to be bell-shaped with a mean equal to 43 years and a standard deviation equal to 7 years, the percentage of customers between the ages of 29 and 57 years is

    A) 95%
    B) 81.5%
    C) 68%
    D) 99.7%
    E) 16.5%

Q.No.2: The probability that house sales will increase in the next 6 months is estimated to be 0.25. The probability that the interest rates on the housing loan will go up in the same period is estimated to be 0.74. The probability that house sales or interest rates will go up during the next 6 months is estimated to be 0.89. Find the probability that house sales will increase but interest rates will not during the next 6 months.