Name: ID: Serial:
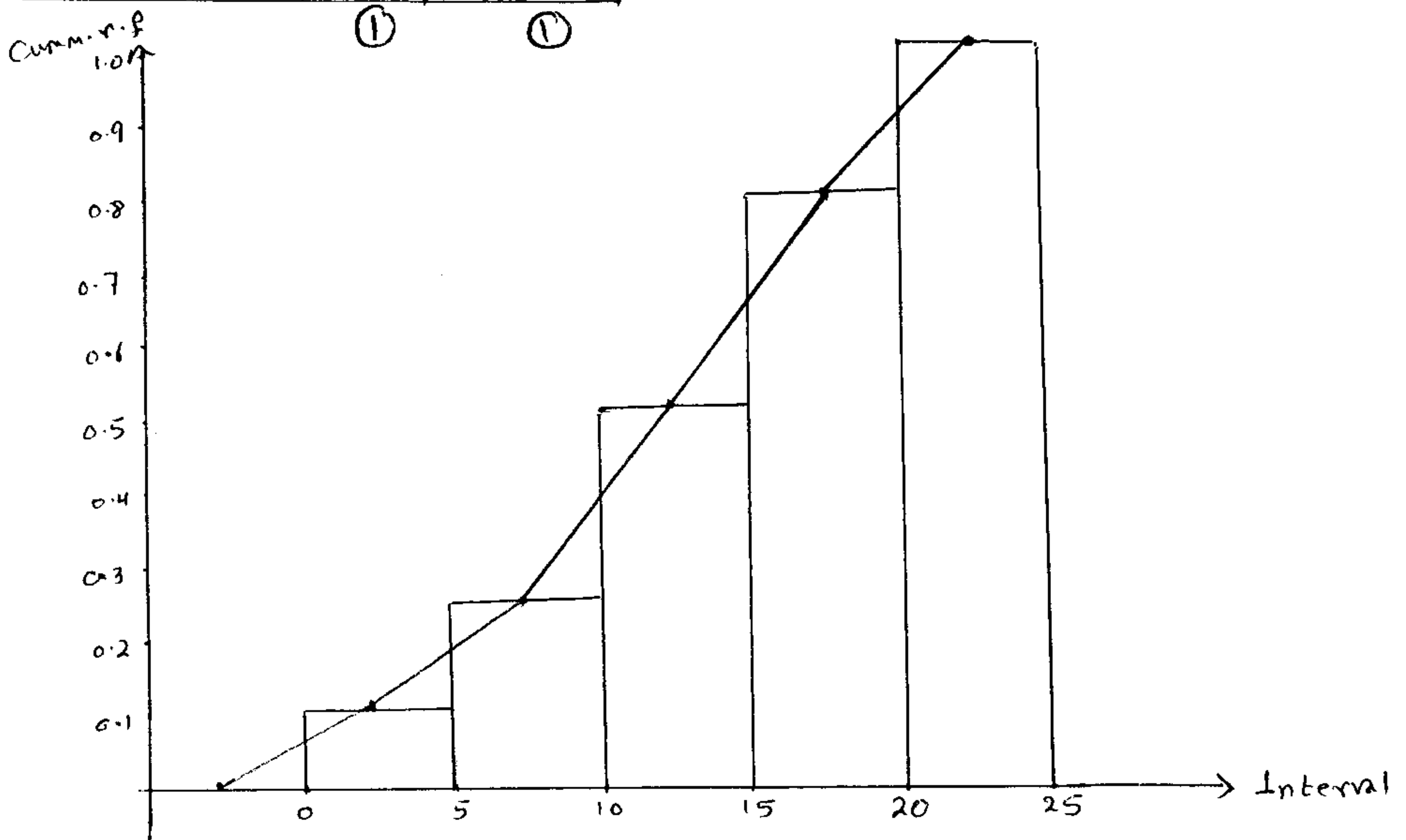
Question One (5-Points)

Write **True** if the statement is true or **False** if not:

1. A frequency distribution can be made for both discrete and continuous data types:--- **True**   ⑤

2. Scatter diagram gives an indication about the shape of a data set:-- **False**

3. The sum of the cumulative relative frequency of a frequency table always one:--- **False**

4. A stem and leaf diagram is used to show the relation between two variable:-------- **False**

5. If a manager wishes to analyze the sales trend for her department, possibly the most effective type of graph will be a line chart:--- **True**

Question Two :(5-Points)

For the following table, construct an ogive

Interval	Frequency	r. f	Cumm. r. f
0 to 5	2	0.10	0.10
5 to 10	3	0.15	0.25
10 to 15	5	0.25	0.50
15 to 20	6	0.30	0.80
20 to 25	4	0.20	1.00
Total	20	1.00	

① ①

③

Name: ID: Serial:

Question One (5-Points)

Write **True** if the statement is true or **False** if not:

1. A frequency distribution can be made for ▨▨▨ only continuous data type:---- **False**

2. The frequency histogram gives an indication about the shape of a data set:--- **True**

3. The sum of the cumulative relative frequency of a frequency table always one:--- **False**

4. A scatter diagram is used to show the relation between two variable:--- **True**

5. If a manager wishes to analyze the sales trend for her department, possibly the most effective type of graph will be a line chart:--- **True**
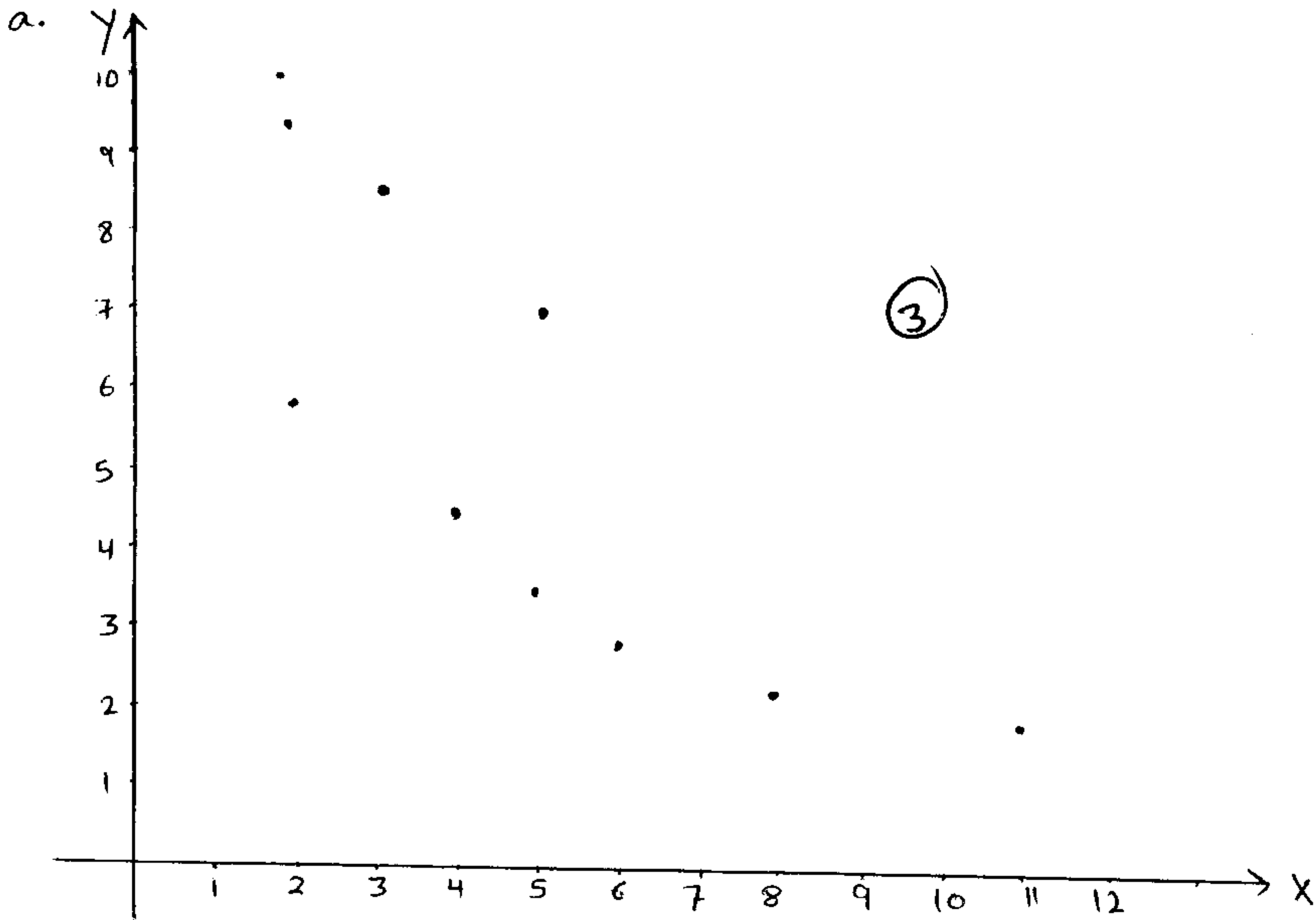
⑤

Question Two :(5-Points)

A daily newspaper lists the following used cars prices for a particular model Japanese car with age x in years and asking price y in thousands of dollars :

X	2	2	11	8	6	5	2	4	5	3
Y	10	5.8	1.8	2.2	2.8	3.5	9.4	4.5	7	8.5

a. Construct a scatter plot for this data
b. Describe the relation between the age X and the price Y

a.

③

b. There is a negative linear relationship between the age (X) and the price (Y).

②