

**AGA KHAN UNIVERSITY EXAMINATION BOARD**

**SECONDARY SCHOOL CERTIFICATE**

**CLASS IX EXAMINATION**

**APRIL/ MAY 2019**

**General Mathematics Paper II**

**Time: 2 hours 15 minutes    Marks: 45**

**INSTRUCTIONS**

**Please read the following instructions carefully.**

1. Check your name and school information. Sign if it is accurate.

**I agree that this is my name and school.  
Candidate's Signature**

**RUBRIC**

2. There are TEN questions. Answer ALL questions. Choices are specified inside the paper

3. When answering the questions:

Read each question carefully.

Use a black pointer to write your answers. DO NOT write your answers in pencil.

Use a black pencil for diagrams. DO NOT use colour pencils.

DO NOT use staples, paper clips, glue or correcting fluid.

Complete your answer in the allocated space only. DO NOT write outside the answer box.

4. The marks for the questions are shown in brackets ( ).

5. You may use a simple calculator if you wish.





(ATTEMPT EITHER PART a OR PART b OF Q.3.)

Q.3. (Total 5 Marks)

a. A fruit vendor bought 100 kg apples for Rs 9,000, 30 dozen bananas for Rs 1,800 and 50 kg grapes for Rs 6,000. He spent Rs 900 on transportation and sold all the fruits as per the given rates.

- Apples at Rs 140 per kg
- Bananas at Rs 75 per dozen
- Grapes at Rs 150 per kg

i. Find his net profit on the sale of these fruits. (3 Marks)

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ii. If 3 dozen bananas were rotten, then find his profit or loss on the sale of bananas. (2 Marks)

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**(ATTEMPT EITHER PART a OR PART b OF Q.3.)**

- b. A superstore offers a discount of 15% on marked price of its items. However, it still makes a profit of 20% on its items. Samia bought the following items from the superstore.

| <b>Item Bought</b> | <b>Marked Price (Rs)</b> |
|--------------------|--------------------------|
| Dinner set         | 8,800                    |
| TV set             | 39,990                   |
| Washing machine    | 24,000                   |

- i. Find the discount Samia got on the items she bought. (2 Marks)

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- ii. Find the cost price of the washing machine paid by the superstore at the time of purchase. (3 Marks)

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Q.9.

(Total 5 Marks)

For the linear equation  $2x + 3y = 12$ ,

i. find the missing values of  $x$  and  $y$  in the given table.

(3 Marks)

|     |    |   |   |
|-----|----|---|---|
| $x$ | -3 | 0 | ? |
| $y$ | ?  | ? | 8 |

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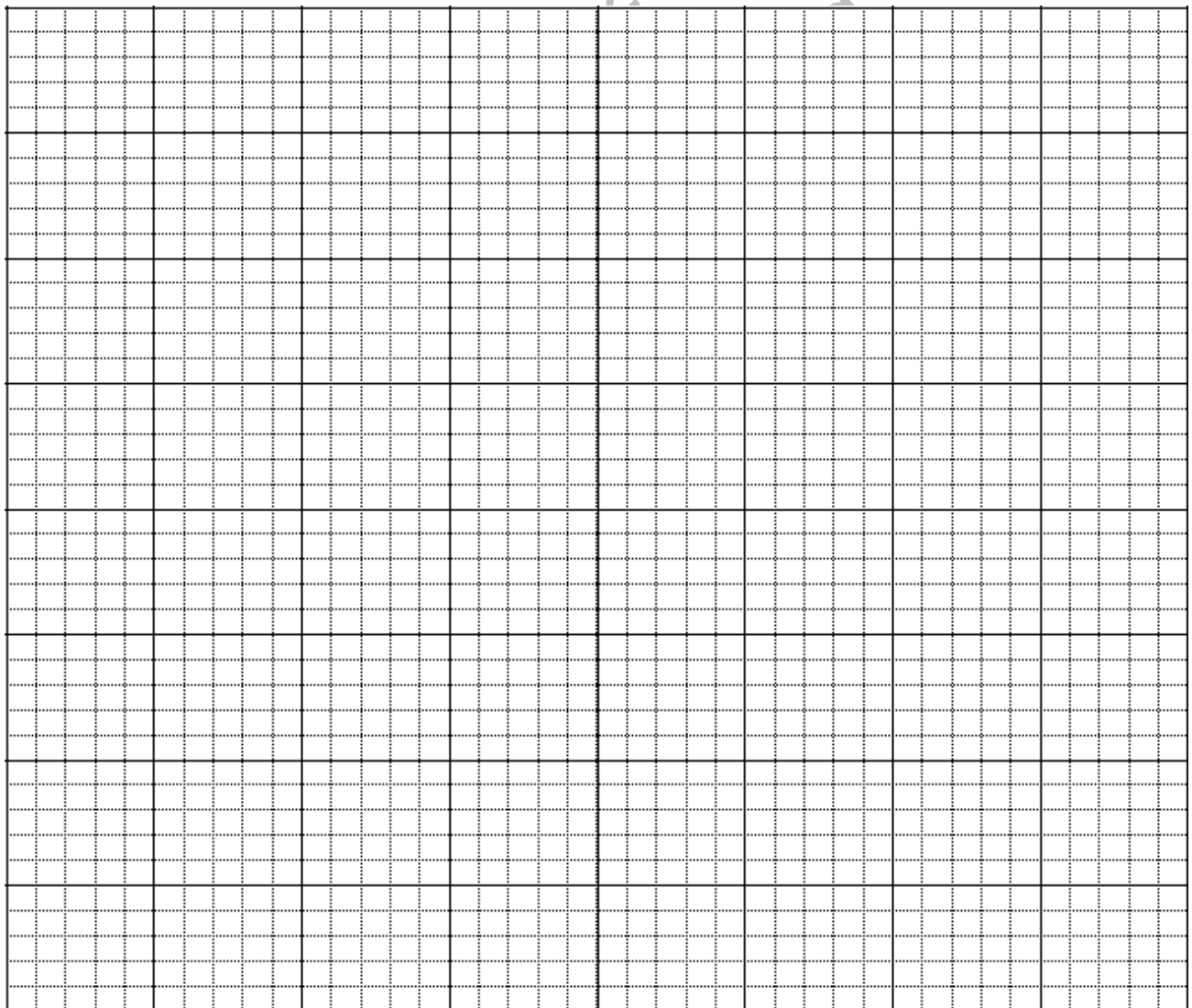
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ii. Use any two points of the table to draw the line  $2x + 3y = 12$  on the given graph.

(2 Marks)



PLEASE TURN OVER THE PAGE

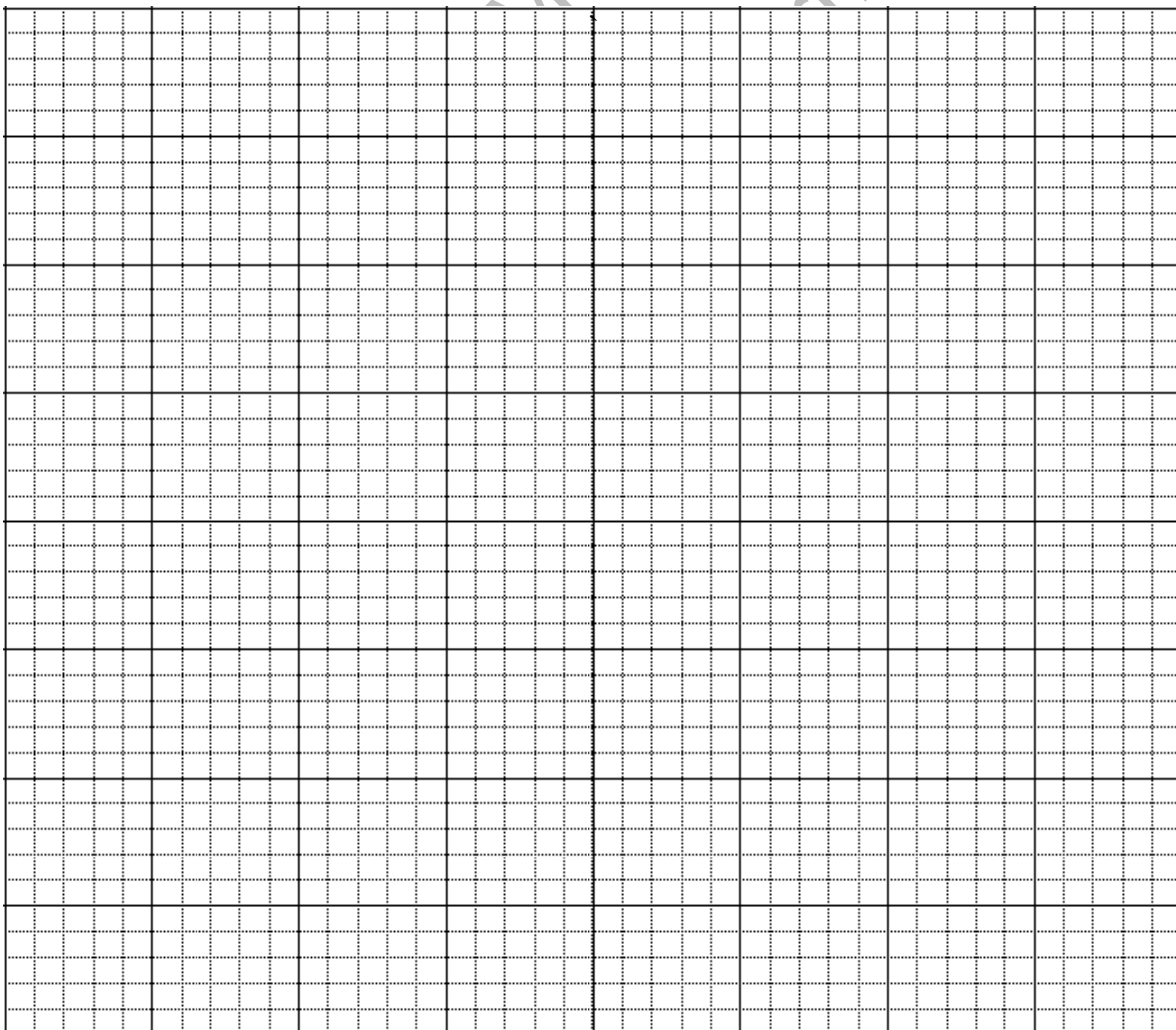
**(ATTEMPT EITHER PART a OR PART b OF Q.10.)**

Q.10.

(Total 6 Marks)

- a. The given data shows the ages (in years) of 35 people working in a department. Complete the table to construct a cumulative frequency curve on the given graph.

| Age (year) | Number of People | Cumulative Frequency |
|------------|------------------|----------------------|
| 20 – 30    | 6                |                      |
| 30 – 40    | 8                |                      |
| 40 – 50    | 9                |                      |
| 50 – 60    | 10               |                      |
| 60 – 70    | 2                |                      |





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