

MAP

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Q1.	Sr	Prob	TP/FP	CumTP	CumFP
	1	0.97	TP	1	0
	2	0.92	TP	2	0
	3	0.88	FP	2	1
	4	0.79	FP	2	2
	5	0.75	FP	2	3
	6	0.70	TP	3	3
	7	0.70	TP	4	3
	8	0.69	FP	4	4
	9	0.61	FP	4	5
	10	0.60	TP	5	5

$$\text{Precision} = \frac{TP}{TP + FP}$$

$$\text{Recall} = \frac{TP}{TP + FN}$$

Precision

1

1

$$2/3 = 0.67$$

$$2/4 = 0.50$$

$$2/5 = 0.40$$

$$3/6 = 0.50$$

$$4/7 = 0.57$$

$$4/8 = 0.50$$

$$4/9 = 0.44$$

$$5/10 = 0.55$$

Recall

$$1/5 = 0.20$$

$$2/5 = 0.40$$

$$2/5 = 0.40$$

$$2/5 = 0.40$$

$$2/5 = 0.40$$

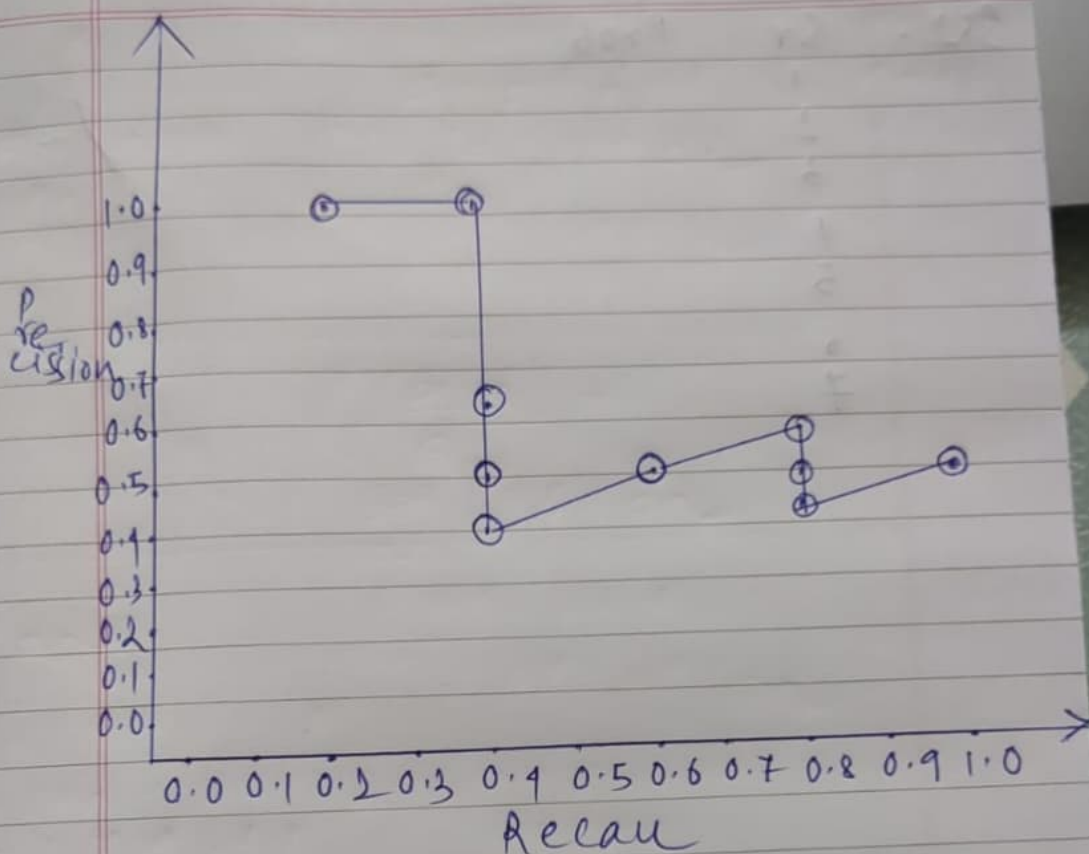
$$3/5 = 0.60$$

$$4/5 = 0.80$$

$$4/5 = 0.80$$

$$4/5 = 0.80$$

$$5/5 = 1$$



$$(5 \times 1) + (4 \times 0.57) + (2 \times 0.5)$$

$$\text{Area} = 8.28$$

$$\text{Avg} = 8.28 / 11 = 75.27\%$$

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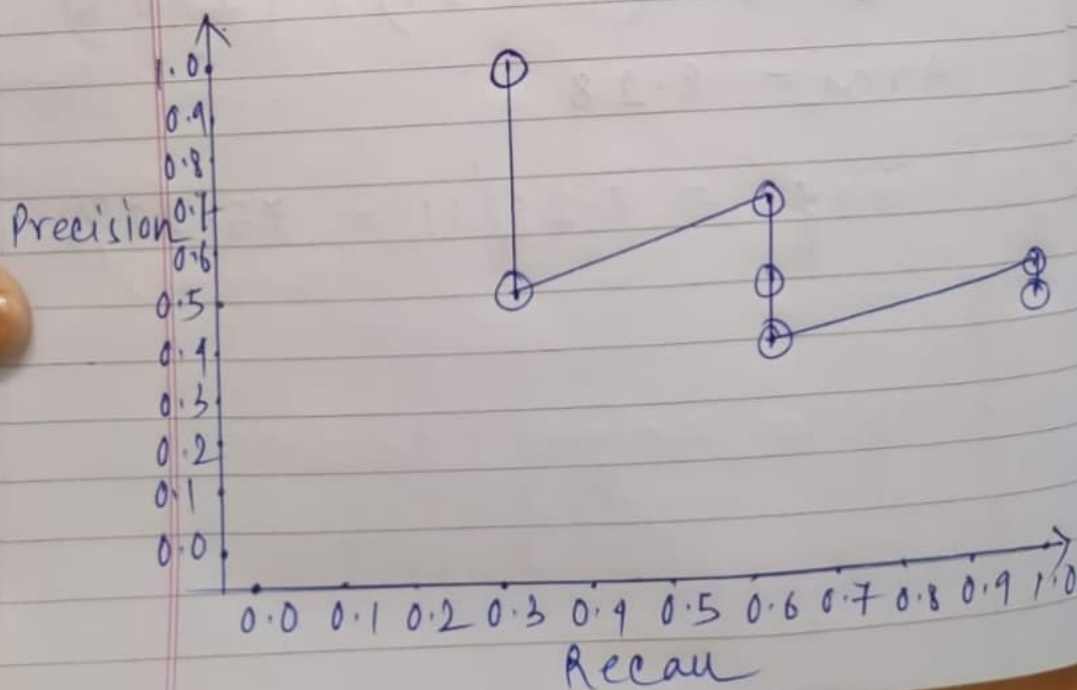
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Q52.

Sr	Prob	TP/FP	CumTP	CumFP
1	0.95	TP	1	0
2	0.89	FP	1	1
3	0.80	TP	2	1
4	0.77	FP	2	2
5	0.70	FP	2	3
6	0.69	TP	3	3
7	0.51	FP	3	4

P _r	Recall
1 = 1	1/3 = 0.33
1/2 = 0.5	1/3 = 0.33
2/3 = 0.67	2/3 = 0.67
2/4 = 0.5	2/3 = 0.67
2/5 = 0.4	2/3 = 0.67
3/6 = 0.5	3/3 = 1
3/7 = 0.42	3/3 = 1



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$$(1 \times 1) + (0.67 \times 3) + (0.5 \times 1) \\ = 8.01$$

Avg P : 72.81 %

Qs	Sr	Prob	TP/FP	Cum TP	Cum FP
	1	0.95	TP	1	0
	2	0.91	TP	2	0
	3	0.85	TP	3	0
	4	0.81	TP	4	0
	5	0.78	TP	5	0
	6	0.68	FP	5	1
	7	0.57	TP	6	1
	8	0.45	TP	7	1
	9	0.43	FP	7	2
	10	0.13	FP	7	3

Pr

Recall

1

$1/15 = 0.06$

1

$2/15 = 0.13$

1

$3/15 = 0.20$

1

$4/15 = 0.26$

1

$5/15 = 0.33$

$5/6 = 0.83$

$5/15 = 0.33$

$6/7 = 0.86$

$6/15 = 0.40$

$7/8 = 0.87$

$7/15 = 0.46$

$7/9 = 0.77$

$7/15 = 0.46$

$7/10 = 0.70$

$7/15 = 0.46$

