SPC 2407 Machine Learning(C.A.T 2)

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An intelligent system was installed at Kirinyaga University main gate to detect Covid-19 status of people crossing the gate. Before deployment, it was tested on ten Covid–19 positive individuals and ten Covid-19 negative individuals. The results for the first round of testing are as shown in the figure below whereby the individuals in the dotted circle were categorized by the system as Covid–19 positive.

A random of the intelligent system is shown below.
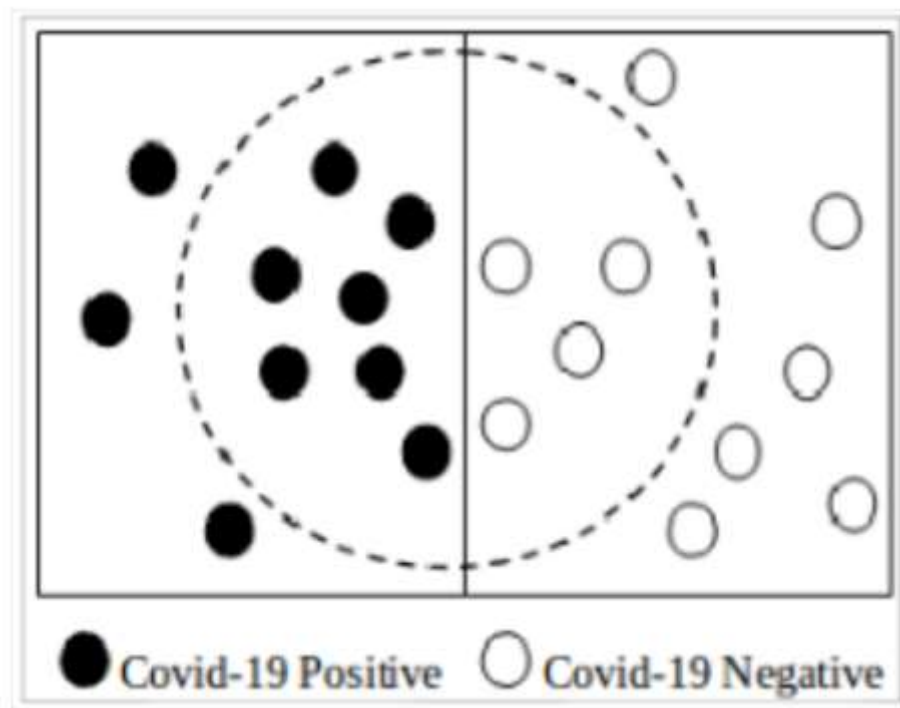
Subsequent runs of the testing yielded the following results:

Rounds of testing	1st	2nd	3rd	4th	5th	6th
No. of people correctly classified as positive	0	8	7	6	9	10
No. of people erroneously classified as positive	0	6	2	1	1	0
No. of people correctly classified as negative	10	4	8	9	9	10
TP rate	y1	y2	y3	y4	y5	y6
FP rate	x1	x2	x3	x4	x5	x6

Calculate the value of **y1**(<u>correct to 2dp</u>. If you get 0, **write it as 0.00**, 1 as **1.00, 4.678 as 4.68 and 1.231 as 1.23**)   1 point

Your answer

Calculate the value of **y2** (<u>correct to 2dp)</u>   1 point

Your answer

Calculate the value of **y3** (correct to 2dp)   1 point

Your answer

Calculate the value of **y4** (correct to 2dp)   1 point

Your answer

Calculate the value of **y5** (correct to 2dp)   1 point

Your answer

Calculate the value of **y6** (correct to 2dp)   1 point

Your answer

Calculate the value of **x1** ([correct to 2dp](#))   1 point

Your answer

Calculate the value of **x2** ([correct to 2dp](#))   1 point

Your answer

Calculate the value of **x3** ([correct to 2dp](#))   1 point

Your answer

Calculate the value of **x4** ([correct to 2dp](#))   1 point

Your answer

Calculate the value of **x5** ([correct to 2dp)](#)   1 point

Your answer

Calculate the value of **x6** ([correct to 2dp)](#)   1 point

Your answer

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