QUESTION 1	
Question 1	27.5 / 30 pts
1.1 (<u>no title)</u>	3 / 3 pts
1.2 — (no title)	2.5 / 4 pts
1.3 — (no title)	3 / 3 pts
1.4 — (no title)	3 / 3 pts
1.5 — (no title)	4 / 4 pts
1.6 — (no title)	5 / 5 pts
1.7 — (no title)	3 / 4 pts
1.8 (no title)	4 / 4 pts
QUESTION 2	
Question 2	24 / 25 pts
2.1 — (no title)	3 / 3 pts
2.2 — (no title)	3 / 3 pts
2.3 — (no title)	5.5 / 6 pts
2.4 — (no title)	3.5 / 4 pts
2.5 — (no title)	6 / 6 pts
2.6 (no title)	3 / 3 pts

QUESTION 3	
Question 3	16 / 20 pts
3.1 — (no title)	3 / 3 pts
3.2 — (no title)	1 / 3 pts
3.3 — (no title)	2.5 / 3 pts
3.4 — (no title)	4 / 5 pts
3.5 (no title)	5.5 / 6 pts

MISTAKES

1.2:

- **1 pts** The sample numbers identified are different from the correct ones
- 0.5 pts Furthest samples are very different indicating that they may have been labelled wrongly

1.7:

– 1 pts Your discussion is too short - you should relate to your results from previous questions, and talk more specifically about the dataset.

2.3:

– 0.5 pts You could have pointed out that linear decision boundaries are well explained by the fact that a logistic regression classifier is a linear classifier

2.4:

– 0.5 pts You could have pointed out that non-linear decision boundaries are well explained by the fact SVM with an RBF kernel is a non-linear classifier.

3.2:

- **1 pts** Your plot of cluster centres do not match the correct one
- 1 pts You failed to provide your findings or the findings are completely misleading

3.3:

- 0.5 pts Need more details about findings.

3.4:

- **0.5 pts** Your discussions lack some theoretical aspects
- 0.5 pts You did not write a conclusion or it is wrong

3.5:

 - 0.5 pts You failed to compare the two types of GMMs in your discussions from theoretical aspects. The full covariance model has a large number of parameters to train than diag-cov