**I. Pen-and-paper**

Priors :

* Class 0:
* Class 1:

Y1 distribution:

* Class 0:
* Class 1:

Y2 probability mass function:

* Class 0:
* Class 1:

Y3 and Y4 distribution:

* Class 0:
* Class 1:

1. Answer 3
2. Answer 4

**II. Programming and critical analysis**

1. Answer 5
2. Answer 6
3. Answer 7
4. Answer 8

**III. APPENDIX**

Paste your programming code here using Consolas 9pt or 10pt.

Use **highlighting** or colored text to facilitate the analysis by your faculty hosts.

**END**