## **Data Interpretation**

Fakedata & Fraud (2001) wanted to find out whether Psychology students were better looking that non-Psychology students. 20 Psychology students and 20 control participants were independently rated for attractiveness by a female psychology lecturer on a scale of 1 (least attractive) to 5 (most attractive). The ratings are given below.

PP number	Psychologists	Non- psychologists
1	2	2
2	5	2
3	4	4
4	3	3
5	3	2
6	4	5
7	2	3
8	2	4
9	1	4
10	4	3
11	3	2
12	3	2
13	2	1
14	4	2
15	3	4
16	1	2
17	5	3
18	4	3
19	5	5
20	5	2

- 1. State a suitable null hypothesis for this investigation.
- 2. Calculate the mean attractiveness ratings for the two groups in the study.
- 3. Draw a frequency histogram to illustrate the results of this study. Make sure you give it a title and label the axes.
- 4. Explain, by referring to the frequency histogram, why the mode is an unsuitable measure of central tendency for this data set.
- 5. Suggest whether the researchers would be able to accept their alternative hypothesis.
- 6. Identify and explain one design flaw in this investigation and suggest how it could be corrected.