

## Candidate 3

### Total marks awarded – 17/30

Research methods (gathering techniques 1 and 2)	4
Reference to/use of processed information	3
Knowledge and understanding	6
Analysing information	1
Conclusions	1
Communicating information	2

### How does the Strathmory River compare to the Bradshaw Model?

#### Page 1

The first KU mark is awarded at 'rock to break off' ('water' is underlined as this should be air, but the rest of the statement is correct) **(1 mark)**. A second KU mark is awarded at 'to break up' for a second process of erosion, relevant to the study **(1 mark)**.

Four further KU marks are awarded in this paragraph for each of the four explanations of methods of transportation **(4 marks)**. The candidate has now reached the maximum of 6 marks for KU, however, further marks could have been awarded as follows.

#### Page 2

A KU mark could have been awarded at 'energy to carry its load' for an explanation of deposition **(1 mark)**.

A further KU mark could have been awarded on this page at 'greatest in the upper course of the river' for an explanation of vertical erosion **(1 mark)**. No marks are awarded for the middle course because the description is very basic and is almost a reversal of the upper course, and there is no explanation. A KU mark could have been awarded at 'large looping meanders present' for a list of four limited descriptive words about the lower course **(1 mark)**.

Methodology: no marks were awarded on this page.

#### Page 3

The first T1 mark is awarded at 'every 0.5m using a metre stick' for a detailed description of measuring cross sectional depth **(1 mark)**. A second T1 mark is awarded at 'distance that had been measured out' for a developed description of velocity **(1 mark)**. A carat is placed at 'centre of the channel' assuming the candidate is talking about average rather than total.

A T2 mark is awarded at 'axis were measured' for a description of the second technique **(1 mark)** and a further T2 mark is awarded at 'shape was decided' for further description of methodology of bedload analysis, using appropriate terminology **(1 mark)**.

**Page 4**

A T3 (Gathering Technique 3) mark is awarded at 'what angle the slope was' for detailed description of stream gradient **(1 mark)**. No marks were awarded for the preceding information, which is slightly confused.

Where a candidate describes more than two research methods, all are marked and the lowest scoring is bracketed off, in this case it is gathering technique 3.

Analysis: A carat is placed at 'middle course of the Strathroy River' as there is a limited comparison of speed, but no evidence to support this. An underline is placed at 'shows an anomaly' because the lower course is fastest in both graphs. The slowest section is different in the river and model and a PI mark is awarded for the identification of this anomaly (linking two pieces of evidence for difference sources) **(1 mark)**.

**Page 5**

An 'L' is placed at 'braiding' as this is on the PI sheet and the candidate has not yet added any value to this. A KU mark could have been awarded at 'deposit its load' for relevant background knowledge **(1 mark)**. An AN mark is awarded at 'greater friction' as the candidate has given an explanation of the lower speed in the middle course of their study river **(1 mark)**.

A carat is placed at 'narrowest in the upper course' and second carat at 'river is in the lower course' and these two carats are linked to give one PI mark; there are two comparisons here, each with no data **(1 mark)**. A carat is also placed at 'this to be in the upper course' as there is a basic comparison but no evidence. An 'R' is placed at 'due to braiding present' as this has already been credited.

**Page 6**

A carat is placed at 'than in the lower course'; the candidate has a limited comparison with no data. An underline is placed at 'the rocks in the upper course were larger' as there is no rock size shown on the graph. There are no marks for the rest of this paragraph as the candidate has no data on bedload size.

A carat is placed at 'mostly rounded' as the candidate has a comparison, but no data to evidence this and this is rolled together with the carat at the top of the page and a PI mark is awarded here **(1 mark)**.

**Page 7**

No marks are awarded for the top paragraph as this is too vague (the candidate may have been trying to talk about attrition, but this is not clear).

Conclusion: A Con mark is awarded at the end of the paragraph for a limited conclusion **(1 mark)**.

Two marks are awarded for communication **(2 marks)**; the report is well structured and uses appropriate terminology for this topic.