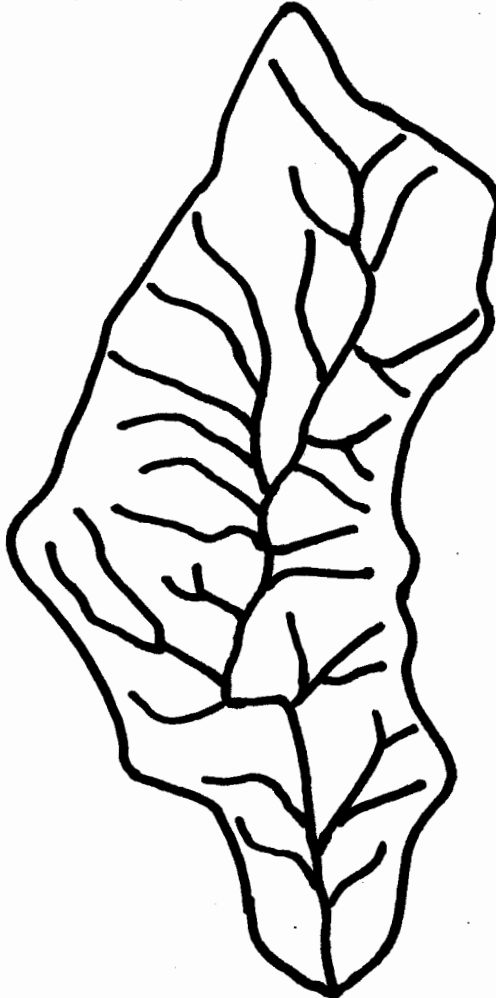


SECTION A: COMPULSORY QUESTION

Question 1

- (a) Explain the importance of studying the drainage basin characteristics. (10 marks)
- (b) Figure 1 shows the drainage basin of Ntondwane river.
- (i) Determine the stream frequency. (20 marks)
- (ii) Determine the number of streams of each order. (10 marks)
- (40 marks)**



Scale 1:50,000

Figure 1: Drainage basin of Ntondwane river

SECTION B: ANSWER ANY TWO QUESTIONS

Question 2

Explain the advantages of using a drainage basin as a basis for planning in the sector of water resources. **(30 marks)**

Question 3

Discuss the factors that influence the rate of erosion in a catchment. **(30 marks)**

Question 4

Explain the drainage basin water conservation approaches. **(30 marks)**

Question 5

Discuss the importance of measuring sediment in water resources planning. **(30 marks)**