

SECTION A: COMPULSORY QUESTION

Question 1:

- (a) Discuss the role of hydrology in relation to the landforms in a drainage basin (20 marks)
 - (b) Explain how the drainage basin characteristics are determined. (20 marks)
- (40 marks)**

SECTION B: ANSWER ANY TWO QUESTIONS

Question 2:

'The environment is considered as a legitimate user of water'. Discuss the validity of this statement. (30 marks)

Question 3:

Discuss the factors influencing the variation of the sediment yield in Figure 1. (30 marks)

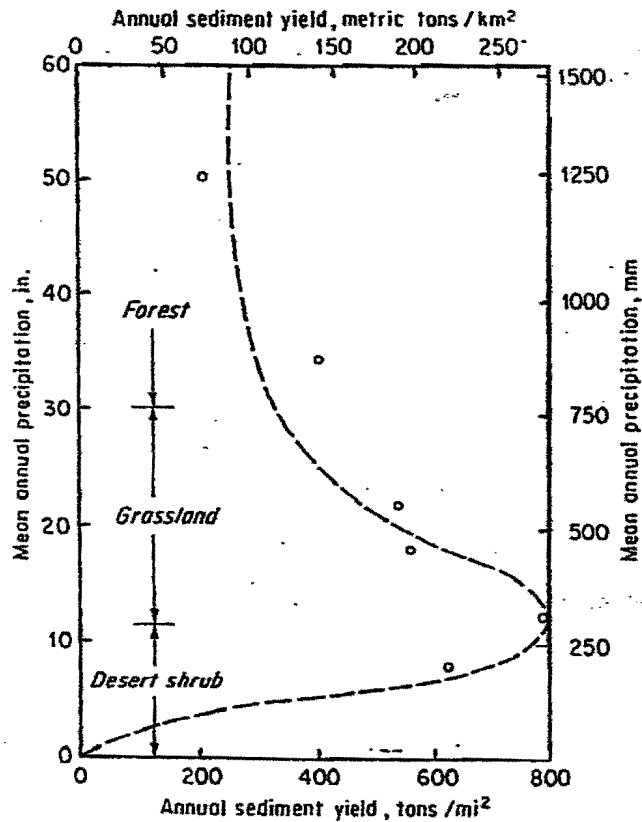


Figure 1. Sediment yield as a function of mean annual precipitation

Question 4:

'Needs assessment in drainage basin studies is very important'. Discuss the validity of this statement. **(30 marks)**

Question 5:

Give an account of the methods used to evaluate the water resources in a catchment.

(30 marks)