Answer four (4) questions only. Where necessary illustrate your answers with sketches/diagrams or equations. Each question carries 25 marks.
1. (a) Define the following terms and phrases:

   System (2)
   Infiltration capacity (2)
   Geomorphology (2)
   Bifurcation ratio (2)
   Wetted Perimeter (2) (10)

(b) Describe two methods that can be used to describe network shape. The emphasis should be on the main sources of error and steps that can be taken to minimize these errors. (15)

[25 Marks]

3 Discuss the benefits of systems approach in the study of drainage basin [25 Marks]

4. One of the major problems encountered in measuring drainage basin processes is sampling in time and space. Give a short description of approaches used to overcome these problems. [Hint. Use precipitation measurement as an example] [25 Marks]

5 William Morris Davis’s Cycle of Erosion model of landscape development has dominated debate in geomorphic studies for a long time.

(a). State the major components of the model (10)

(b). Discuss the approaches that have development as a critique and reaction to the Davisian Model and their the major implication in the development of geomorphology as a “surface-form-and-process” science. (15) [25 Marks]