

M.A. Examination, 2018
Semester-IV
Geography
Course : XXI (Special Paper)
(Fluvial Geomorphology)

Time : 3 Hours

Full Marks : 40

Questions are of value as indicated in the margin

Answer **three** questions selecting **one** from each unit

Unit – I
(Hydrological Characteristics of River Basin)

1. What are the major components of fluvial system? Identify and discuss the factors responsible for sediment transportation of a river. 6+8=14
2. Account for development of a meandering channel. Differentiate the salient features of *meandering from braided streams*. 8+6=14

Unit – II
(Morphometric Properties of River Basin)

3. Explain the different models of channel initiation. How do the drainage pattern evolve on the uniclinal structure? 7+6=13
4. Enumerate and narrate the different methods of stream ordering. What do you understand by equilibrium profile of a stream. 7+6=13

Unit – III
(River Basin Management Issues)

5. Assess the impact of flood management strategies on hydro-morphological characteristics of South Bengal flood plain. Suggest suitable alternatives to the existing strategies. 8+5=13
 6. What is the connotation of 'watershed based development'? Comment on the importance of this policy citing examples from India. 6+7=13
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