

Anekant Education Society's
Tuljaram Chaturchand College, Baramati
(Autonomous)
Department of Geography
Question Bank (2019-2020)
MA/MSc. Geography Semester-II
Geog: 4202- Fluvial Geomorphology

Answer in One Sentence:

1. Define Fluvial Geomorphology.
2. State the types of flows.
3. What do you mean by drainage basin?
4. Name the phases of drainage network development.
5. What is stream network?
6. State law of allometric growth?
7. Define runoff.
8. What is excess overland flow?
9. Define drainage divide.
10. What is through flow?
11. Name any two drainage basins.
12. What is gully?
13. What is the steady and unsteady flow?
14. Define hydrograph.
15. What is discharge?
16. Mention stages of flood.
17. State types of flows on the basis of flow behavior.
18. What is laminar flow?
19. Write the types of river channels.
20. Define shear stress.
21. Write the methods of discharge measurement.

22. What do you mean by stream power?
23. State any two controls of channel morphology?
24. What is Renold number ?
25. Give any two features of channel bed configuration.
26. State any two processes of fluvial erosion.
27. Mention any two landforms resulting from fluvial erosion.
28. State any two landforms resulting from fluvial deposition.
29. What is wetted perimeter?
30. Name any two channel patterns.
31. What is grade?
32. Define hydraulic geometry.
33. Name any two types of erosion.
34. What is competence?
35. State any two modes of transport.

Short notes

1. Nature of fluvial geomorphology
2. Drainage basin a geomorphic unit
3. Law of allometric growth
4. Saturation excess overland flow
5. Magnitude of discharge
6. Flood stages and hydrograph
7. Turbulent flow
8. Supercritical flow
9. Bedrock river
10. Hydraulic radius
11. Anabranching channel
12. Long profile
13. At-a-station hydraulic geometry
14. Headword erosion
15. Abrasion and attrition

16. Grooves
17. Potholes
18. Sediment transport
19. Types of river load
20. Transverse dunes and Linear dunes
21. River bedload
22. Sediment yield
23. Yazoo streams
24. Bajadas
25. River Metamorphosis

Short Answer Questions

1. Explain drainage basin and stream network.
2. Give importance of Ergodic principle in fluvial geomorphology.
3. Describe Horton's overland flow.
4. What is runoff? Explain its types.
5. Explain process of channel formation.
6. Describe methods of velocity measurement.
7. Elaborate flow behavior.
8. Explain cross-section morphology.
9. Discuss concept of grade.
10. Describe process of fluvial erosion.
11. Write depositional landforms of river.
12. Explain in brief downstream hydraulic geometry.
13. Explain types of river load.
14. Discuss in brief the entrainment of sediment.
15. Describe measurement of sediment yield.

Long Answer Questions

1. What is fluvial geomorphology? Write the nature and scope of fluvial geomorphology.
2. Describe in detail Horton's laws of drainage composition.
3. Explain various types of flows in fluvial geomorphology.
4. What is flow velocity? Discuss its measurement methods.
5. Define channel morphology and explain reach morphology in detail.
6. What is hydraulic geometry? Give an account of downstream geometry.
7. Describe fluvial processes and erosional landforms with example.
8. Discuss various modes of sediment transport and give methods of measurement of load.
9. Explain depositional landforms of river.
10. What do you mean by river metamorphosis? Discuss evidences of metamorphosis.