

Integ M.Sc. Sem.-3 (App. Geo.) Examination

EC 201

River Science

Time : 2-00 Hours]

December 2021

[Max. Marks : 50

Section - I - (Attempt any three)

- Q - 1 Define river discharge and discuss various factors affecting it. [14]
- Q - 2 (i) Describe stream hydrology. [07]
(ii) Explain the physical properties of water and draw neat diagram of distribution of earth's water. [07]
- Q - 3 Explain types of drainage pattern along with neat diagrams. [14]
- Q - 4 (i) Describe sediment load, transport and sediment yield methods. [07]
(ii) What is sediment source? Describe catchment erosion process. [07]
- Q - 5 Describe the braided, meandering and anabranching channels of alluvial rivers. [14]
- Q - 6 (i) Discuss channel patterns along with the stratigraphic sequence. [07]
(ii) Explain the different type of classification approaches in fluvial landscape. [07]
- Q - 7 Write a note on bedrock channels and incision process. [14]
- Q - 8 (i) How river responses to climate, tectonics and human disturbance? [07]
(ii) Explain evolution of fluvial landscape. [07]
- Q - 9 **Answer the following short questions.** [08]
(i) Define stream hydrology.
(ii) What is river discharge?
(iii) Write four factors which control the river erosion?
(iv) Which factors are responsible for the deposition of river?
(v) Define deltas with two examples.
(vi) What is radial pattern?
(vii) Mention the stages responsible for complete river development.
(viii) Define pot holes.