

ACTIVITY CODE: 1903106031

B. Sc. 6th Semester (Honours) Examination, October 2020

GEOLOGY

Course ID: 62026

Course Code: SH GEL-603DSE-3(P)

Course Title: River Science Lab

Time: 2 Hours

Full Marks: 15

*The figures in the right hand side margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.*

Answer the following questions:

1. Using the standard formulae calculate the following palaeohydrological parameters for the two channel belts from the given data chart below: [*Scientific calculator or Microsoft Office Excel may be used for calculation.*] 10
 - a) Mean annual discharge (Q_m)
 - b) Bankfull channel width (w_b)
 - c) Bankfull channel depth (d_b)
 - d) Paleoslope (S)
 - e) Bankfull water discharge (Q_b)
 - f) Drainage area (A_d)
 - g) Principal Stream Length (L)
 - h) Channel belt width (cbw)

Fluvial Interval	Mean Channel depth (d_m)	Mean Channel width (w_m)
Channel Belt 1	1.48	23.42
Channel Belt 2	1.30	16.13

2. Viva voce

5