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UG/2nd Sem/Geolo/H/19 (Pr.)

2019

B.Sc.

2nd Semester Examination

GEOLOGY (Honours)

Paper - C4P

(Elements of Geochemistry)

[Practical]

Full Marks: 20

Time: 3 Hours

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

Answer the following questions.

- Interpret the given geological map with the help of strike lines, dip of the beds. Draw a suitable profile section and describe the stratigraphic sequence accordingly (Map attached).
- 2. Three vertical bore holes are driven on a level country at three points A, B and C. C is situated 500 m west of A and B is situated 400 m NNW

[Turn Over]

of C. Three vertical bore holes intersect Coal Seam at depth of 360 m, 280 m and 150 m respectively. Find the attitude of the Coal Seam.

Another borehole x is driven at a distance of 800 m from C towards true dip direction of the coal seam. At which angle, a bore hole should be driven to reach the coal sean attaining minimum depth?

- 3. A planar fault contact contains Slickenside lineations that trend N60°W. The fault contact has an attitude of N10°E, 80°NW. Find out the following:
 - (a) What is the plunge of the lineation?
 - (b) What is the rake angle of the lineation relative to the fault contact?
- 4. Laboratory Note Book.

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5. Viva-voce.

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