## *`FACULTY OF SCIENCE*

## B.Sc. IV-Semester (Practical) Examination` Subject: Geology

Paper: 11/
Question Paper

Time: 2 Hours Max. Marks: 25

I. Identify the rocks (Nos. 1-3) from the list mentioned below. Give their textures, and mineral assemblages and add a note on mode of formula.  $(3 \times 2 = 6)$ 

1. Breccia, 2. Conglomerate, 3. Sand stone, 4. Lime stone, 5. Shale, 6. Shelly Limestone

I.(b) Identify the rocks (No. 4-5) under microscope and give their petrographic characteristics. (2 x 2 =4)

7. Breccia, 8. Conglomerate, 9. Sand stone, 10. Lime stone, 11. Shale, 12. Shelly Limestone

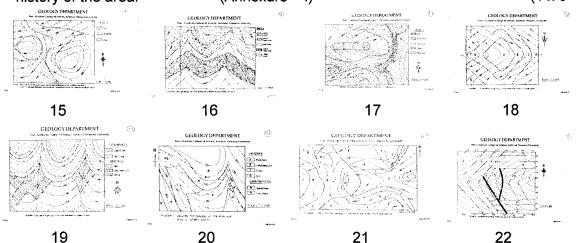
II. Identity the topographic features of the given toposheet.

 $(1 \times 3 = 3)$ 

13.

14.

III. Prepare a cross section along X-Y of the geological map and write the geological history of the area. (Annexure -1) (1 x 5 =5)

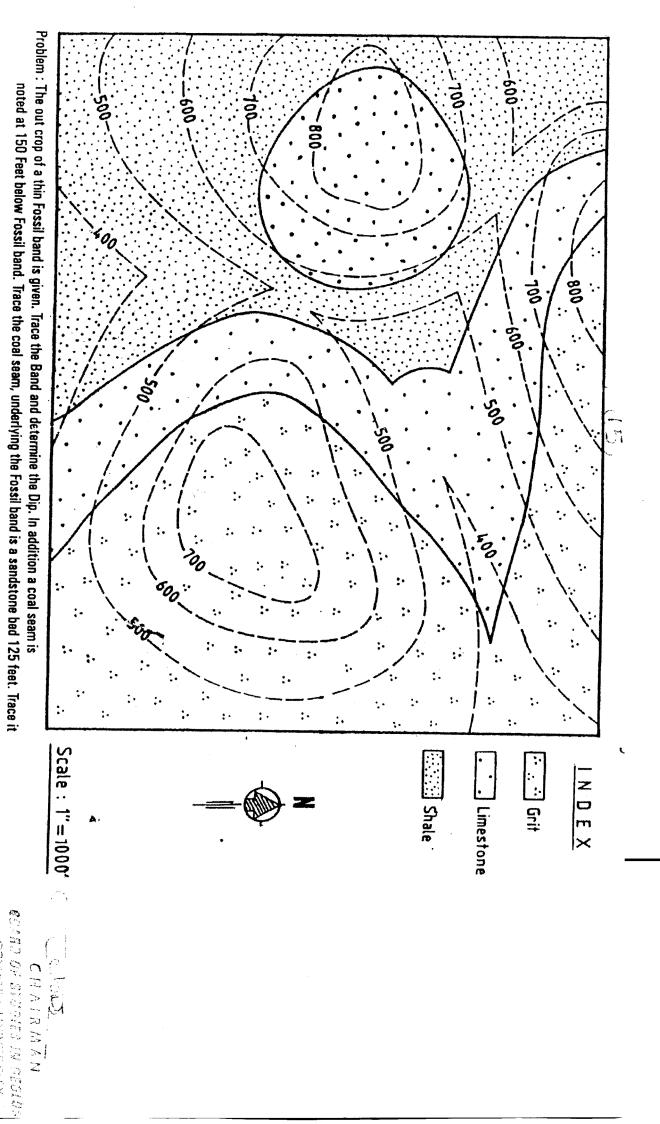


- IV. Bore Hole data problem (Annexure II) (1 x 2 = 2)
- 23. Three coal pits A,B,C at the corners of an equilateral triangle on horizontal surface of the ground enter a coal seam at depth of 100 M,200 M, and 400 M respectively, below the surface. The side of the triangle is 500 meters in length and C is due south of A. Find the direction and amount of dip of the upper surface of the seam supposing this to be a plane surface.
- 24. Bore holes were sunked at A, B, and C which are at the same altitude above sea level and which lie at the corners of an equilateral triangle. The side is 6000'. C is being west of B and A north of the point midway between B and C. A coal seam was met at depths at 600' in the bore hole A, 400' in B and 200' in C. Find the dip of the coal seam.
- 25. Bore holes were sunk at A, B, C, and D, which are suited at N-W,N-E, S-E, and S-W corners respectively. The sides of which are 5000' long. The coal seam reached in the bore hole at following depths, In A at 100', B at 400', and in D at 600'. At what depth will the coal seam be met at C.?

V. Record

(1 x 5 =5)

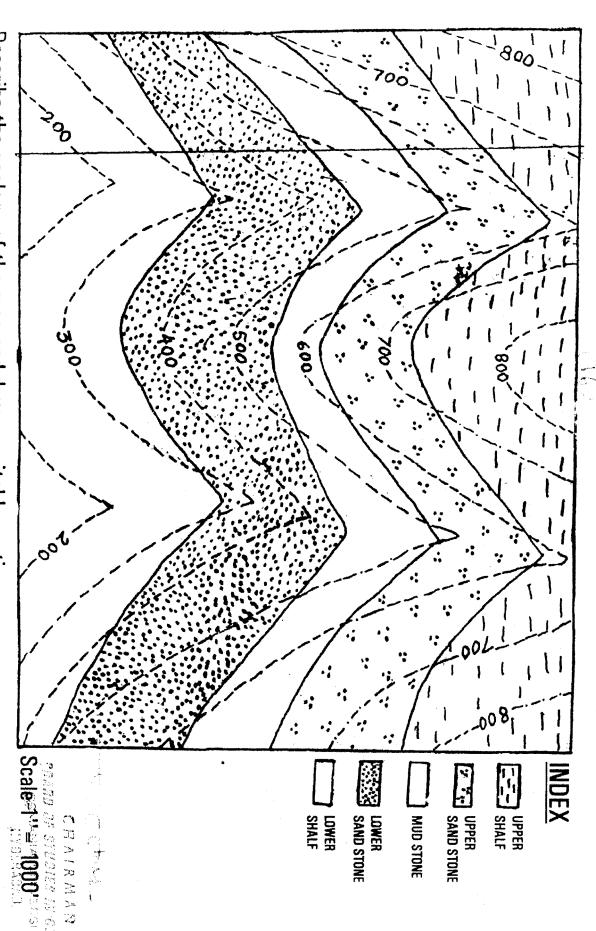
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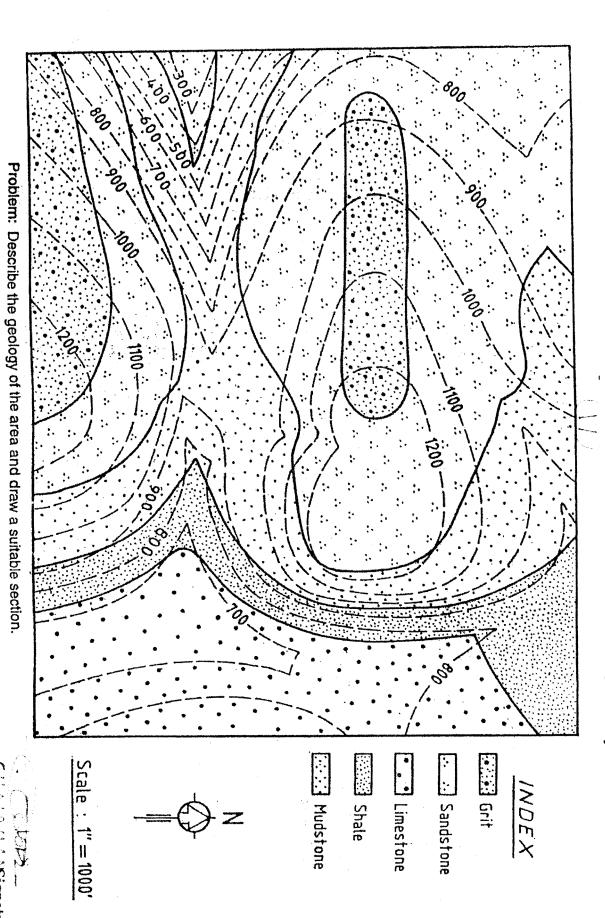
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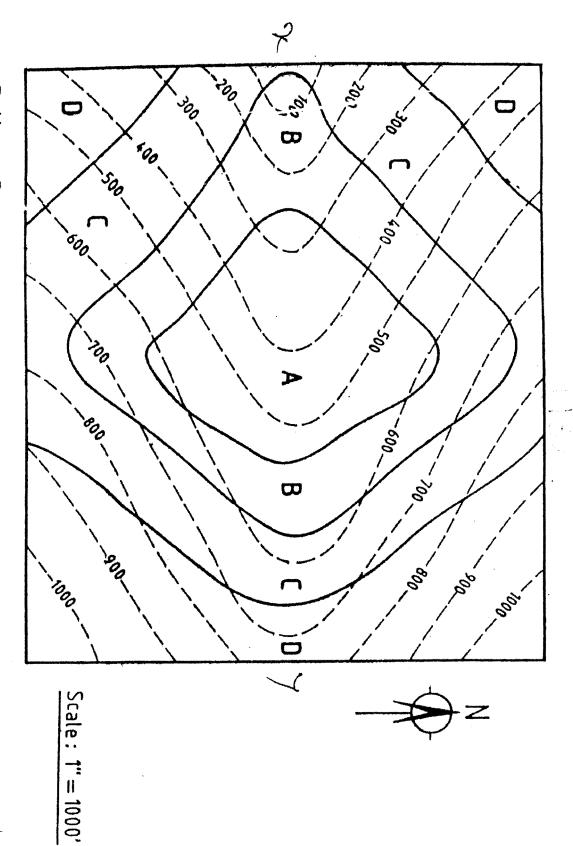
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Bescribe the geology of the area and draw a suitable section



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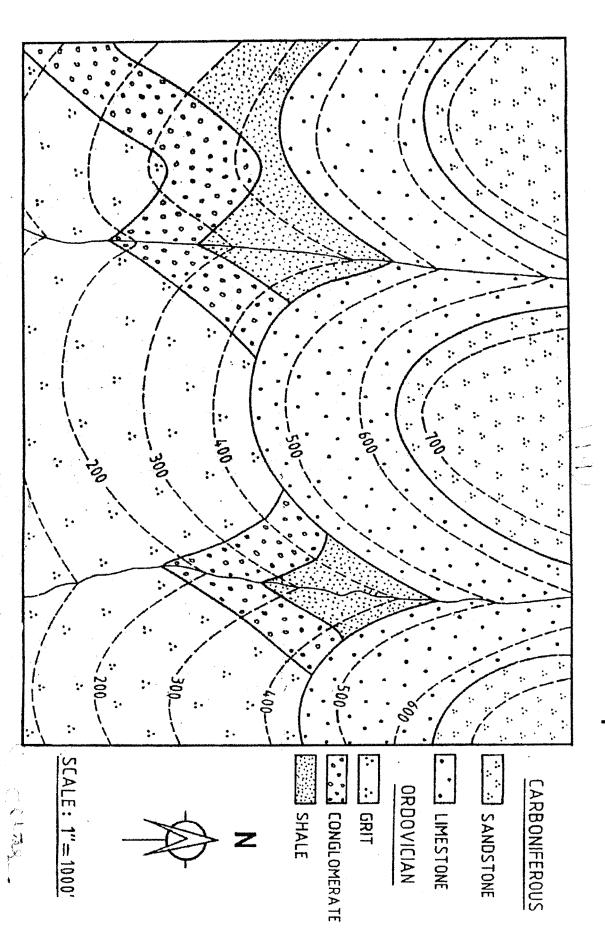


Problem : Describe the geology of the area and draw a suitable section.

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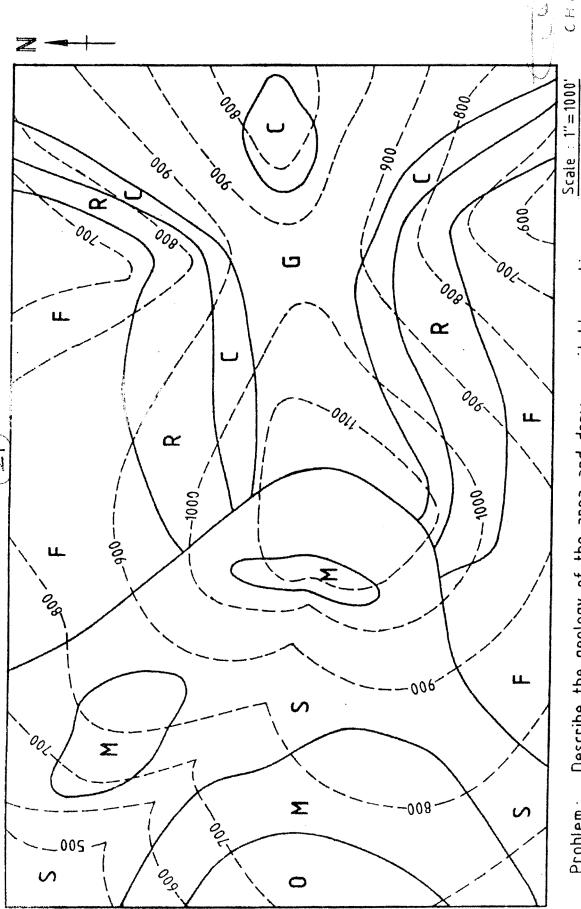


Problem: Describe the geology of the area and draw a suitable section.

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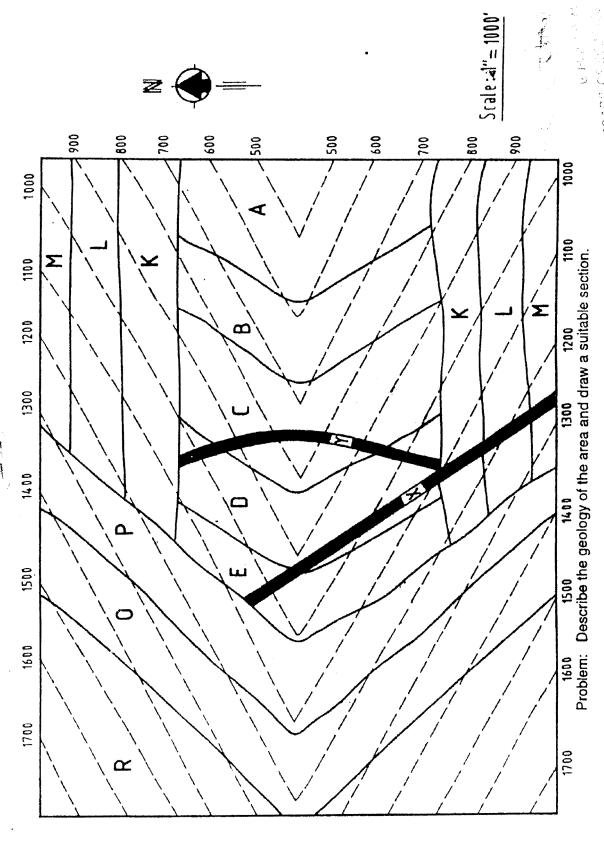
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Describe the geology of the area and draw a suitable section. Problem:

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