

2019

GEOGRAPHY — HONOURS — PRACTICAL

Paper : CC-4 (Practical)

Full Marks : 30

The figures in the margin indicate full marks.

BATCH – I

[Question 1(a), or 1(b), or 1(c) to be decided by lottery]

(Maximum time for ground survey allotted to each candidate is 25 minutes. Starting time and finishing time of ground survey are to be recorded by the candidate in the fieldbook and to be verified by the examiner concerned on the spot.)

1. (a) Prepare a field-book and make a closed traverse survey by Prismatic Compass along the quadrilateral ABCD. Correct the magnetic bearings and plot the traverse based on those values. Adjust the closing error graphically by Bowditch's method and complete the drawing with proper heading, labelling and scale. 15

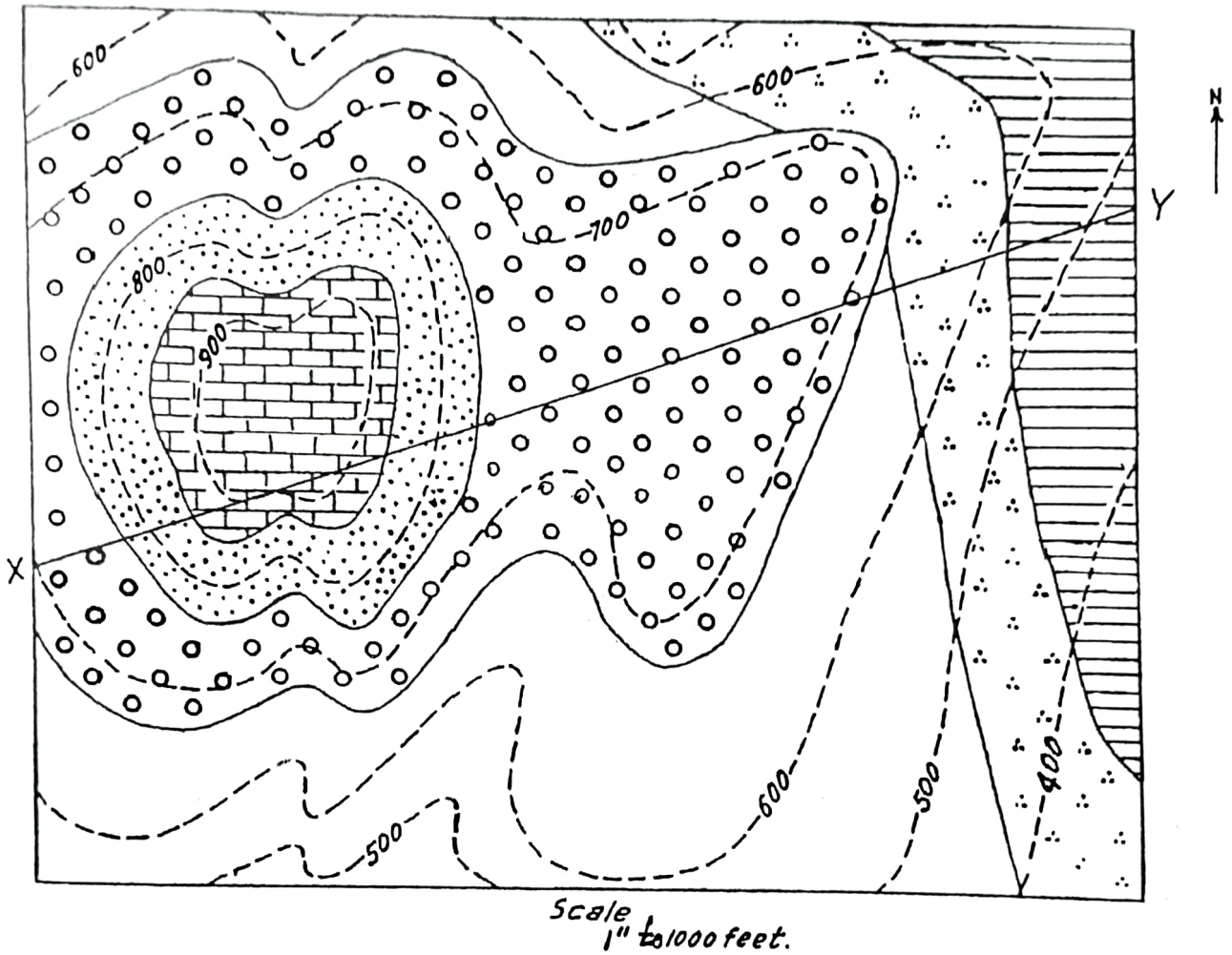
Or,

1. (b) Prepare a field-book and make a Dumpy Level Survey along the given line XY to determine the reduced levels of 9 points marked at equal intervals. Compute the Reduced Levels with Bench Mark at X being 5.70 meters above mean sea level. Draw a longitudinal profile with a suitable scale. 15

Or,

1. (c) Prepare a field-book and make a theodolite survey to determine the height of an object PQ with accessible base. Draw a rough sketch of the exercise and derive the formula for computation of this height. Calculate the absolute height of P, Reduced Level of the instrument station being 6.25 meters above Mean Sea Level. 15
 2. Draw a section along the given line XY on the geological map and interpret the structure. 8+2
 3. Viva voce based on Laboratory Notebook. 5
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Q. No. 2



Scale
1" = 1000 feet.

Limestone	Shale	Sandstone	Conglomerate	Sandstone	Mudstone

2019

GEOGRAPHY — HONOURS — PRACTICAL

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Full Marks : 30

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BATCH – II

Question 1. (a) or 1. (b) or 1. (c) is to be decided by lottery. Total time of ground survey allotted to each candidate is a maximum of 25 minutes. Starting time and ending time of ground survey are to be recorded by the candidate in the field-book and verified by the examiner.

1. (a) Make a closed traverse survey by Prismatic Compass along the given four sided figure ABCD. Plot the traverse with corrected magnetic bearing and adjust the closing error graphically by Bowditch's method. 15

Or,

1. (b) Make a dumpy level survey along the line 'PR' to determine the reduced level of 9 points marked at suitable intervals on the line. Prepare a field-book and draw a longitudinal profile with a suitable scale. The Bench Mark at 'R' is 10.35 metres. 15

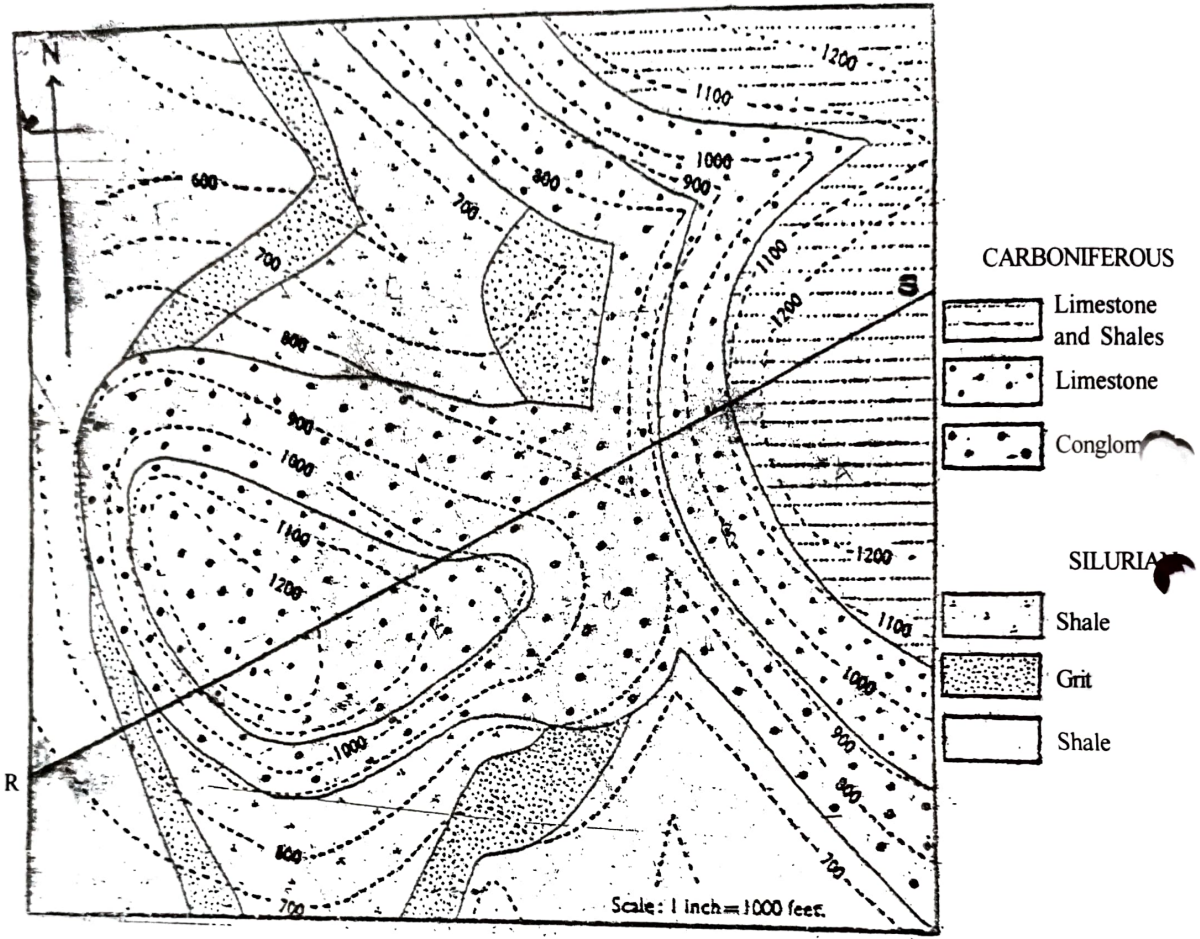
Or,

1. (c) (i) Prepare a field-book and determine the height from the point of observation of the given object by Transit Theodolite. (Base accessible)
(ii) Calculate the height of the object above mean sea level given R.L. of the instrument station is 6.05 metre. 13+2

2. Draw a section along the given line RS on the given geological map and interpret the map under the following head : (a) Geological history. 8+2

3. Viva voce based on Laboratory Notebook. 5
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Q.No. 2.



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Paper : CC-4-P

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BATCH – III

Question no. 1(a), or 1(b), or 1(c) is to be decided by lottery.

[Total time of ground survey allotted to each candidate is a maximum of 25 minutes. Starting time and ending time for ground survey are to be recorded by the candidates in the Field Book and to be verified by the examiners concerned on the field.]

1. (a) Make a closed traverse survey by Prismatic Compass along the quadrilateral PQRS. Plot the traverse with corrected magnetic bearings and adjust the closing error graphically by Bowditch's rule. 15

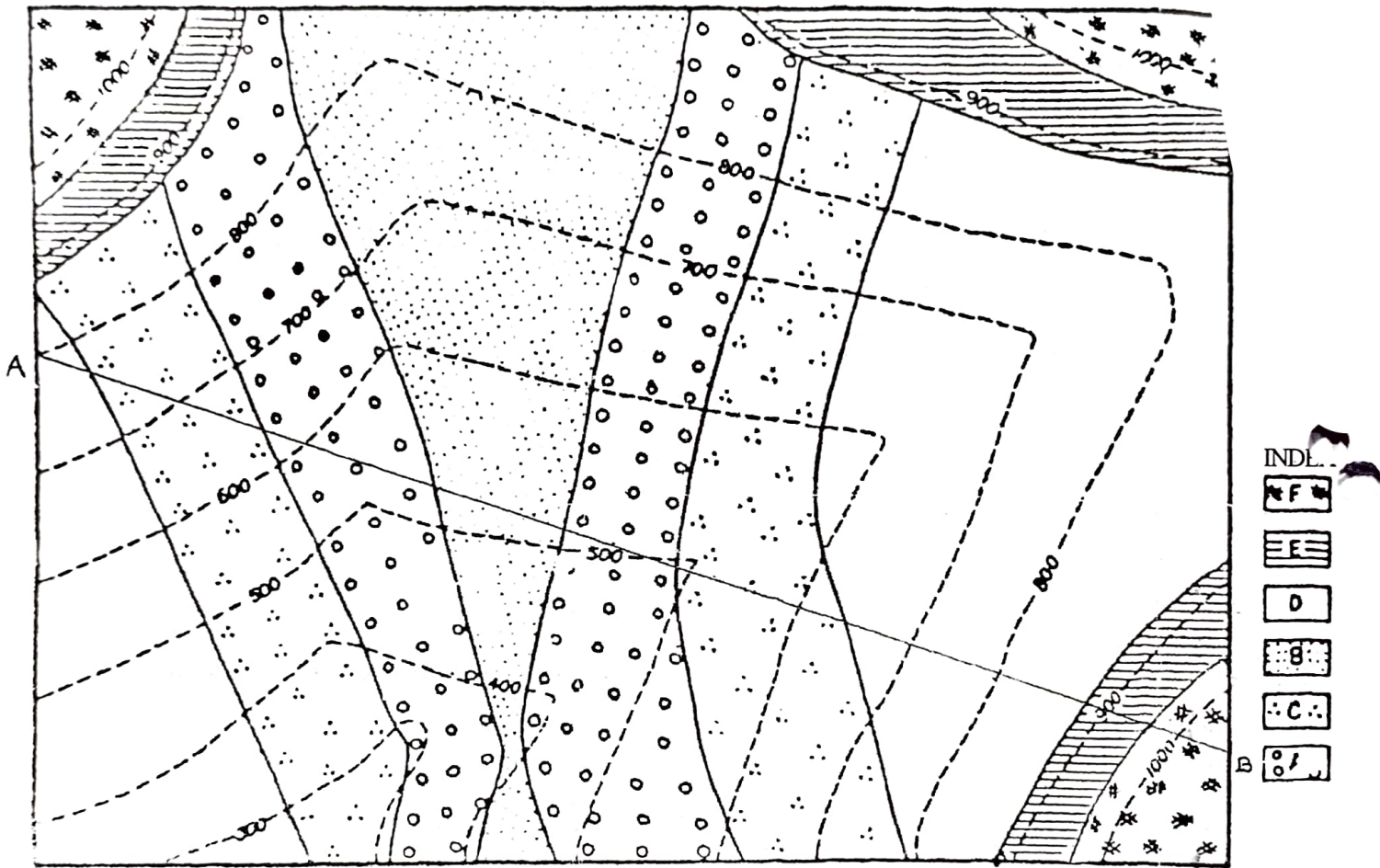
Or,

1. (b) Make a profile survey using Dumpy Level along the line PQ to determine the reduced level of 9 points marked at suitable interval on the line. Given Bench Mark at P is 7.26 metre. Prepare a Field Book and draw a longitudinal profile with suitable scale. 15

Or,

1. (c) Determine the height of the given object from the ground (Base Accessible) by Theodolite. Also determine the height of the object above mean sea level, given RL of the station of observation is 6.25 metres. 13+2
 2. Draw a section along the given line AB on the geological map and interpret the map under the head : Geological history. 8+2
 3. Viva voce based on Laboratory Notebook. 5
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Q. 2.



Scale : 1" = 1000'

2019

GEOGRAPHY — HONOURS — PRACTICAL

Paper : CC - 4P

Full Marks : 30

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

BATCH - IV

[*Question no. 1(a), or 1(b), or 1(c)* to be decided by lottery.]

(Maximum time for ground survey allotted to each candidate is 25 minutes. Starting time and finishing time of ground survey are to be recorded by the candidate in the field-book and to be verified by the examiner concerned on the spot.)

1. (a) Prepare a field-book and make a closed traverse survey by Prismatic Compass along the quadrilateral MNOP. Correct the magnetic bearings and plot the traverse based on those values. Adjust the closing error graphically by Bowditch's method and complete the drawing with proper heading, labelling and scale. 15

Or,

1. (b) Prepare a field-book and make a Dumpy Level Survey along the given line AB to determine the reduced levels of 9 points marked at equal intervals. Compute the Reduced Levels with Bench Mark at A being 6.25 meters above mean sea level. Draw a longitudinal profile with a suitable scale. 15

Or,

1. (c) Prepare a field-book and make a theodolite survey to determine the height of an object XY with accessible base. Draw a rough sketch of the exercise and derive the formula for computation of this height. Calculate the absolute height of X, Reduced Level of the instrument station being 7.05 meters above Mean sea Level. 15
2. Draw a section along the given line PQ on the geological map and interpret the geological history. 8+2
3. Viva voce based on Laboratory Notebook. 5

Q. No. 2

