2019

Part – II

GEOGRAPHY

(Honours)

Paper – V

(Set – II)

(Practical)

Full Marks – 100

Time : 6 Hours

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

Answer **all** questions.

1. (a) Draw a Vernier Scale to read 90° 50′ 12″ when 9 m.s.d coincide with 10 v.s.d and main scale is divided in $\frac{1}{10}$ th of a degree.

   (b) If a diagonal scale is to be made with yard, feet and inch then, how many divisions it has to be made vertically.

   (c) A plot of 35,000 sq.km is drawn on map as *plot of 14cm.* and 5cm. Find the R.F.

10+2+3

P.T.O.

2. Draw a geological section along the line XY on the given geological map and interpret the same under the following heads :

   (a) Geological succession

   (b) Topography and drainage in relation to underlying structure.

   (c) Geological history. 12+3+2+3

3. (a) Draw a graticules of Bonne's Projection for the area extending 8°N to 40°N and 68°E to 96°E at an interval of 4° on a scale of $1:35\times10^{6}$. Find out ϕ_o (standard parallel) when $r\,\phi_o = 45.26$ cm.

   (b) State the important properties of this projection.

   (c) Distinguish between perspective and non-perspective projection. 16+2+2

4. Conduct any one of the following surveys to be done allotted by lottery.

   (a) Make a closed traverse survey by prismatic compass survey around the four stations MNOP given in the field.

      (i) Prepare the field book and enter the reading neatly.

      (ii) Make necessary corrections.

(iii) Draw the traverse with necessary adjustment by parallel – meridian method.

(iv) Calculate the included angles at each.

(v) Calculate the area of the traverse.

8+5+6+2+4

Or

(b) Run a dumpy level survey along a line AB (Given in the field) of 25m long at 2.5 m interval taking at least one. Change point when BM at 4th station is 15.25m.

(i) Prepare the field book and enter the readings neatly.

(ii) Calculate the reduced levels.

(iii) Show the arithmatic check.

(iv) Draw a profile on a suitable scale.

(v) Calculate the gradient between highest and lowest points. 10+3+3+5+4

Or

(c) Determine the height and distance of the given object with transit theodolite. (base inaccessible).

(i) Prepare a field book and enter the readings.

(ii) Calculate the height and actual distance of the object from the given ground station.

(iii) Plot the data with suitable scale.

(iv) Mention the different sources of error in the theodolite survey. 8+8+5+4

5. Identify given 5 (five) specimen of Rocks and Minerals mentioning at least two important characteristics of each specimen. 5×2=10

6. Laboratory Notebook and Viva-voce. 5+5=10

For Q. No. 2

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