2015

M.Sc.

2nd Semester Examination

REMOTE SENSING AND GIS

PAPER—RSG-207

(PRACTICAL)

Full Marks : 25

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

(*Geodesy, GPS and Mobile Mapping*)

Answer *all* questions.

1. Generate a multibuffer of your choice using the supplied data and compose the map with proper annotation. 3+2

2. Generate Contour line or Virtual 3D of the supplied data. 5

3. Find out the radii of parallel and meridian at the point P(40°N, 40°E) laying globe surface, given that the semi-major axis = 6377·3 km and $e^2 = \frac{1}{150 \cdot 4}$. Also calculate the corresponding value of radii assuming the globe to be a sphere with R = 6368 km. 5

4. Three points — A(40°S, 60°E), B(30°S, 85°E) and C(50°S, 105°E) are on the surface of the spherical earth with radius of 6368 km. Determine the area of ABC by the principles of spherical triangle. 5

5. Practical Note Book and Viva-Voce. 5