## 2022

## M.Sc.

## 2nd Semester Examination

## REMOTE SENSING AND GIS

## PAPER—RSG-298

### *(Practical)*

### GEODESY

*Full Marks* : 25

*Time* : 4 Hours

*The figures in the margin indicate full marks.*

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

1. A satellite picture shows that the shadow cast by a cloud on earth surface with a shape of a spherical triangle. The vertices of above triangle are – A (90°N), B (65°N, 65°E), C (56°N, 75°E). Determine the area of the shadow on the earth surface considering that *the radius* of the earth is 6368 km.                10

2. Of the two places Gangtok (27°20'N, 88°40'E) and Kohima (25°40'N, 94°08'E) which one is nearer to Kolkata (23°34'N, 88°24'E) in respect of their distance along great circle routes ? Given that the radius of the earth is 6368 km.    10

3. Laboratory Note Book and Viva-Voce.    5

———