

**2021**

**GEOGRAPHY — HONOURS — PRACTICAL**

**Paper : CC-12P**

**(Remote Sensing, GIS and GNSS)**

**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.*

Answer *all* questions.

1. (a) Discuss the spectral reflectance properties of natural vegetation of Landsat OLI data.
- (b) State the function of Georeferencer tool of the QGIS software.
- (c) Describe the process of supervised image classification to prepare an LULC map. 5+5+5
2. (a) Write the basic steps to generate a 100-metre buffer of an international boundary from a scanned map.
- (b) Plot the following waypoints using proper scale and measure the perimeter in kilometres. 5+5

Waypoint Id	WGS-84, UTM-44N coordinates	
	Easting (m)	Northing (m)
A	219342	1919824
B	220994	1914575
C	216411	1911351
D	216305	1917080
E	217451	1919424

3. Evaluation of Laboratory Notebook.