Total number of printed pages–3

14 (GGY–3) 3123

2023

GEOGRAPHY

Paper : GGY–3123

(Fundamentals of RS, GIS and GPS)

Full Marks : 40

Time : Two hours

The figures in the margin indicate full marks for the questions.

1. With appropriate illustrations discuss the basic concepts and principles involved in remote sensing process. Mention about the significant output of the process from geographic point of view.   4+4+2=10

Or

Discuss about the data products and characteristics of Airborne and satellite remote sensing process. Compare and contrast the nature of these two types of data production.   (3+3)+4=10

2. Discuss the application areas of GIS in geographical study. How is this technology facilitating the geographical data analysis process ? 6+4=10

Or

Discuss the possible aspects to be considered while using remote sensing data in the area of forest and urban landscape study. 5+5=10

3. With suitable illustrations and examples discuss the raster and vector data structure, their character play with strength and weakness. 5+5=10

Or

Define GPS and state its data acquisition technique. What are the factors that determine accuracy of GPS data ? Also mention the principle of DGPS.
(1+3)+3+3=10

4. Write short notes on : *(any two)* 5×2=10

    (a) Application areas of GPS in geographic study

(b) Licensed and open source GIS software

(c) Data products of Indian remote sensing satellites

(d) Visual and digital image processing

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