

Total number of printed pages-3

3 (Sem-6) GGY M 4

2021

GEOGRAPHY

(Major)

Paper : 6·4

***(Principles and Applications of Remote
Sensing, GIS and GPS)***

Full Marks : 60

Time : Three hours

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

GROUP-A

1. Answer the following questions : 1×5=5
 - (a) What is the full form of EMR ?
 - (b) Mention the wavelength range of visible band.
 - (c) Mention *one* GIS software.

Contd.

- (d) Give the full form of GPS.
- (e) Give an appropriate definition of GIS.
2. Answer the following questions : $2 \times 5 = 10$
- (a) State the concept of GPS.
- (b) What is Remote Sensing ?
- (c) Distinguish between passive and active sensors.
- (d) Mention *two* characteristics of microwave band.
- (e) What do you mean by resolution of sensor ?
3. Answer the following questions : $5 \times 3 = 15$
- (a) Explain different remote sensing platforms with examples.
- (b) State the principles of aerial remote sensing with necessary diagrams.
- (c) State the functions of GIS with examples.

GROUP-B

4. Answer ***any three*** of the following questions : 10×3=30

- (a) Explain the characteristics of EMR with a neat diagram.
 - (b) State the concept, principles and salient features of satellite remote sensing with diagrams.
 - (c) Describe the various components of GIS with their roles and characteristics.
 - (d) Explain the functions and working principles of GPS with necessary diagrams.
 - (e) Discuss the nature and type of geographical data with reference to spatial and non-spatial data.
-