

**Common For M.Sc. Geoinformatics, M.Sc. Environment Science And Technology And  
M.Sc. Wildlife Conservation Action  
M.Sc. (GEOINFORMATICS) (CBCS-2019 COURSE) SEM.-I : WINTER - 2021  
SUBJECT : FUNDAMENTALS OF GEOINFORMATICS**

**Day :** Monday  
**Date :** 10-01-2022

~~W- 21201-2021~~  
**W-21287-2021**  
~~W-21246-2021~~

**Time :** 10:00 AM-01:00 PM  
**Max.Marks** 60

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**N.B.**

- 1) Answer any **FOUR** questions from Q.1 to Q.5. **Q.6. is compulsory.**
  - 2) Figures to the **RIGHT** indicate **FULL** marks.
  - 3) Draw neat labelled diagrams **WHEREVER** necessary.
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- Q.1** a) Describe the different data measurement levels with a diagram. **(06)**
- b) Give a schematic diagram of the history of cartography linking the development of technology with cartographic evolution. **(06)**
- Q.2** a) Differentiate between scale and scale factor. **(06)**
- b) Describe the LCC projection with a diagram. **(06)**
- Q.3** a) What are the characteristics of raster data? **(06)**
- b) Write a note on data sources in geoinformatics with examples. What are the new age data sources? **(06)**
- Q.4** a) Describe the working principle of a GNSS with a diagram. **(06)**
- b) What is spatial interpolation? Differentiate between IDW and Thiessens polygons. **(06)**
- Q.5** a) Describe three applications of network analysis.
- b) Draw a methodology flow chart for selecting suitable habitats for solar farms. Describe data needed with role, data sources. Methodology flowchart must contain intermediate processing operations and outputs.
- Q.6** Write short notes on **ANY THREE** of the following. **(12)**
- a) Sampling methods
  - b) Metadata
  - c) Object oriented database model
  - d) Selection of projection

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