

**POST GRADUATE CERTIFICATE IN
GEOINFORMATICS (PGCGI)**

Term-End Examination

December, 2022

MGY-001 : INTRODUCTION TO GEOINFORMATICS

Time : 2 hours

Maximum Marks : 50

Note : *All questions are **compulsory**. Internal choices are given in Questions number 2 to 4. Marks of each question are indicated against it.*

1. Answer **all** parts :

(a) Give full forms of the following abbreviations : *5×1=5*

(i) OSM

(ii) OCM

(iii) LCC

(iv) HDF

(v) GSLV

- (b) Match the items given in Column A with the most appropriate one given in Column B : $5 \times 1 = 5$

<i>Column A</i>	<i>Column B</i>
(i) GRACE	(1) Crop stress detection
(ii) Hyperspectral	(2) Groundwater related
(iii) QuikSCAT	(3) Rainfall
(iv) KALPANA-I	(4) Water vapour
(v) TRMM	(5) Near sea surface wind speed

2. Write short notes on any **four** of the following : $4 \times 5 = 20$

- (a) Growth and challenges to geoinformatics industry
- (b) Primary and secondary raster data
- (c) Role of geoinformatics in monitoring oil spills
- (d) Geoinformatics in e-governance
- (e) Concept of datum
- (f) Numbering system of Indian topographical maps

3. Discuss in detail the recent trends in remote sensing. 10

OR

- (a) What is data format ? Discuss in detail the types of data formats. 5
- (b) Explain the usage and functionality of FOSS. 5
4. Explain the role of geoinformatics in the study of aquatic ecosystem. 10

OR

- (a) Discuss in brief any five national initiatives utilizing geoinformatics technology. 5
- (b) Discuss the steps involved in the interpretation of topographical maps. 5
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