

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

DDPG-563

Post-Graduate Diploma in Geoinformatics and Remote Sensing Examination, 2023

FUNDAMENTAL CONCEPT OF EARTH SYSTEM AND PRINCIPLES OF GEOINFORMATICS

Paper - PGD-101

Time : 3 Hours]

[Maximum Marks : 100

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 7 × 5 = 35)

Note :- Answer *five* questions, selecting at least *one* question from each Unit. (Answer limit **200** words). Each question carries **7** marks.

Section-C

(Marks : 15 × 3 = 45)

Note :- Answer *three* questions, selecting *one* question from each Unit. (Answer limit **500** words). Each question carries **15** marks.

Section-A

1. (i) Define Projection.
- (ii) What is Vertical Datum ?
- (iii) What do you mean by Grid System ?
- (iv) What is 'NAD83' ?

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- (v) Give definition of thematic map.
- (vi) Define Kriging.
- (vii) What is Geostatistics ?
- (viii) Which satellite is used for GPS in India ?
- (ix) Write the components of GPS.
- (x) What are the ways to represent geographic data digitally ?

Section–B

Unit–I

- 2. What is the shape and size of the Earth ? Explain.
- 3. Differentiate geographical coordinate system and projected coordinate system.
- 4. Write a short note on photogrammetry.

Unit–II

- 5. Write applications of geostatistics.
- 6. Write a short note on 'Sources of errors in GPS'.
- 7. Explain differential GPS.

Unit–III

- 8. Write the sources of cartographic data.
- 9. Explain the types of scale.
- 10. Give applications of general maps.

Section–C

Unit–I

- 11. Discuss the elements of Photointerpretation and application of photointerpretation.
- 12. What do you mean by Lineament ? How to study and analyse lineament ?
Elaborate it.

Unit-II

13. Discuss the application of GPS in surveying, mapping and navigation.
14. Write a detailed note on GIS and computer programming.

Unit-III

15. Elaborate different types of thematic maps and their advantages and disadvantages.
16. Describe digital cartography with its applications.