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Total No. of Questions: 16 ] [ Total No. of Printed Pages: 3

## **PGD-435**

# P.G. Diploma in Geoinformatics and Remote Sensing Examination, 2022

### **FUNDAMENTAL CONCEPT OF EARTH SYSTEM**

Paper - PGD - 101

Time: 3 Hours Marks: 100

Section-A (Marks :  $2 \times 10 = 20$ )

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

Section–B (Marks:  $7 \times 5 = 35$ )

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

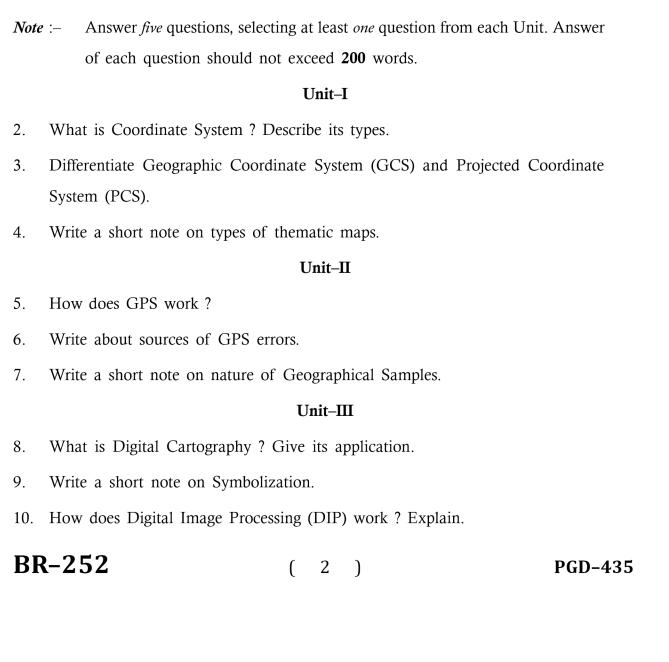
Section–C (Marks:  $15 \times 3 = 45$ )

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

#### Section-A

- 1. Attempt all *ten* questions. Answer should not exceed **50** words in each question.
  - (i) Define Photo-theodolite.
  - (ii) What is Geodesy?
  - (iii) What is Geodetic Datum?

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(iv)

(v)

(vi)

(vii)

(ix)

(x)

What is Cartography?

What is Trilateration?

Write the three components of GPS.

(viii) Name the parameters that are calculated after Trilateration.

Write the types of maps based on relief representation.

What are the branches and sub-branches of Cartography?

Section-B

What is GPS?

#### Section-C

**Note**: Attempt any *three* questions, selecting *one* question from each Unit. Answer of each question should not exceed **500** words.

#### Unit-I

- 11. What is Map Projection? Write elements of Map Projection. Explain the classification of map projection.
- 12. What are the elements of Photo-interpretation? Give a detailed note on its application.

#### Unit-II

- 13. Describe the application of GPS in surveying, mapping and navigation.
- 14. Explain types of GPS and various GPS satellites.

#### Unit-III

- 15. Explain the history and development of Cartography.
- 16. Give a detailed note on Cartographic methods and techniques for map preparation.

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