Assignments

2019-20

Post Graduate Diploma in Geo- Informatics (PGDGI)

Centre for Distance & Open Learning

Jamia Millia Islamia

New Delhi-11002

STUDENT ASSIGNMENTS (SESSION 2019-20) INSTRUCTIONS

The students are required to read carefully and follow the instructions given below:

- Submission of one complete assignment in each course of the programme is compulsory.
- Completed assignments on prescribed assignment booklet are to be submitted by hand or through post to the study centre/Programme Coordinator, CDOL as per dates mentioned in the Academic Calendar 2019-20.

(https://www.jmi.ac.in/bulletinboard/academiccalendar/cdol)

- For assignments submitted after dates mentioned in the Academic Calendar, a late fee of Rs. 100/- per assignment will be payable to CDOL through demand draft in favour of Jamia Millia Islamia, Payable at New Delhi.
- For ex-students who failed to submit assignments during the course of the programme are required to submit Rs. 200/- per assignment to CDOL in the form of demand draft in favour of Jamia Millia Islamia, payable at New Delhi.
- Write your name, roll number and other details as required on the cover page of Assignment Booklet.
- For your own record you may keep a photocopy of your assignment.
- Contact your study centre/ Programme Coordinator to collect evaluated assignments.
- Please go through your Programme Guide carefully.

ASSIGNMENT: Post Graduate Diploma in GEO- INFORMATICS (PGDGI) (DISTANCE MODE)

Fundamentals of Remote Sensing and GPS - (DGI-101)

Session: 2019-20 Marks: 30

NOTE: Attempt any **three** questions. All questions carry equal marks.

- 1. Describe the definition and scope of aerial photography.
- 2. (a) Discuss the various types of aerial photographs.
 - (b) Write short notes digital photogrammetric.
- 3. Explain the types and scope of remote sensing with suitable examples.
- 4. Write short notes on
- (a) Electromagnetic radiation
- (b) Electromagnetic spectrum
- 5. Explain the errors and accuracy in GPS measurements.

Image Interoperation and Processing - (DGI-102)

Session: 2019-20 Marks: 30

NOTE: Attempt any **three** questions. All questions carry equal marks.

- 1. Explain: (a) Row and column ordering.
- (b) Transposition and conjugate rules.
- 2. Differentiate between monochromatic colour and pseudo colour display.
- 3. List the factors responsible for radiometric corrections. Explain systematic and non-systematic corrections.
- 4. Write short notes on:-
- a) Image fusion
- b) PCA transformation.
- c) Density slicing
- d) Tasselled cap (K-T) transformation
- 5. Define unsupervised classification. Explain the different process involved in unsupervised classification.

Geographical Information Systems (DGI-103)

Session: 2019-20 Marks: 30

NOTE: Attempt any **three** questions. All questions carry equal marks

- 1. Discuss the basic operating system and give detailed any two operating systems.
- 2. Differentiate between spatial data and non-spatial data.
- 3. Define data structure. What are the advantages and disadvantages and uses of various data structures?
- 4. Write short notes on:
- a) Topological overlay.
- b) Polygon-in-polygon overlay.
- c) DEM.
- 5. Explain the fuzzy spatial analysis.

Cartography (DGI-104)

Session: 2019-20 Marks: 30

Note: Attempt any three questions. All questions carry equal marks

- 1. Explain concept of Cartography and its types and functions.
- 2. How will you explain the concept of "Geodesy"?
- 3. Write short notes on:
- a) Lamberts Orthomorphic
- b) Plum line
- c) BNG system
- d) Mercators projection
- 4. Explain
- 5. Write down the elements and different controlling factors of map design.

Thematic Applications in Geosciences (DGI- 105)

Session: 2019-20 Marks: 30

NOTE: Attempt any **three** questions. All questions carry equal marks.

- 1. What are the issues in land use planning and explain the policies regarding land use planning in India?
- 2. Describe the various identification and mapping of rocks types.
- 3. Explain the soil classification as per soil taxonomy.
- 4. What are the different approaches and methods of mapping?
- 5. Discuss the hydrological cycle and explain the types of precipitation.
