190004

PG Diploma in Geo-Informatics
Subject: Applications of Remote Sensing
Subject Code: KPGE104
Semester: 2nd
Batch: 2018-19
Theory (External): 35
Time: 03 hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. **Section A** comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. **Section B** comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number

SECTION –A (OBJECTIVE TYPE QUESTIONS)

(10*1=10 Marks)

1. What is an Urban sprawl?
2. NSDI and USGS stand for.....
3. What is EIA?
4. SRTM and ASTER data are associated with
5. What do you understand by LU/LC?
6. RF Scale 1:10,000 stands for, 2cm = ...
7. Write locations of
   i. NRSC
   ii. NATMO
8. Which Government body/Organization publishes the Toposheet for India?
9. Write one application of Geoinformatic in census data modelling.
10. (a). SAR data is an example of active data sensor

    (b). SAR data is an example of passive data sensor

    i. Option a is correct
    ii. Option b is correct
    iii. Both the options are correct
    iv. Both the options are incorrect.

SECTION –B (ESSAY TYPE QUESTIONS)

(05*05=25 Marks)

11. Write any ten organizations where Geoinformatics technologies are used for different application area.
12. What do you understand by hazard, risk and disaster? How Remote sensing and GIS can play an important role to mitigate the adverse effect of any disaster?
13. Explain the application of Remote Sensing and GIS in ground water monitoring by giving appropriate examples of tool, techniques and data.
14. Write some basic parameters/ characteristics for a new city development Plan and explain how Geospatial techniques will help in it?
15. What do you understand by DEM, DSM and DTM? How DEM will be helpful for the development of rain water harvesting system in an urban area?
16. What is the difference between industrial waste and municipal solid waste? How Remote sensing will play pivotal role to monitoring the river water waste management?
17. Describe the basic functionality of EIA and role of Geoinformatics for an EIA decision maker to establish a solid waste site selection in an area.
18. Illustrate the Indian satellite mission history and its application in natural resource management.

----------End of Paper----------