

190003

PG Diploma in Geo-Informatics
Subject: Advances in Geospatial Technology
Subject Code: KPGE103
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)

(10x1=10 Marks)

1. What is the major use of microwaves in remote sensing?
2. What is an Altimeter?
3. Write two advantages of Thermal Remote Sensing.
4. What is Radiant Temperature?
5. What is an Interactive Web Mapping?
6. What is a Web Map Service (WMS)?
7. What is a Data Server?
8. Define scalability in Web GIS implementation.
9. What is Mobile GIS?
10. What is an Open Source Software?

SECTION –B (ESSAY TYPE QUESTIONS)

(5x5=25 Marks)

- ks)
11. Describe Electromagnetic Spectrum of microwave region. What are the major bands of microwave used in remote sensing?
 12. Describe the functioning and operation of UAVs? What are the major uses of UAV data?
 13. Describe major uses and advantages of Thermal Imageries with examples.
 14. What is Web Mapping? Describe different types of Web Mapping with suitable examples?
 15. Describe different types of Web Services that can be made available on the Geo-portal and their uses.
 16. Differentiate between Web Map Server and Data Server. Describe their configuration for Web GIS Implementation.
 17. Describe major applications of Mobile GIS with examples.
 18. Describe the advantages and disadvantages of Open Source and Commercial Off the Shelf Softwares (COTS) for GIS.

-----END OF PAPER-----