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**200914**

**POST GRADUATE DIPLOMA**

**Geo-Informatics**

**Subject: Advances in Geospatial Technology**

**Subject Code: KPGE103**

**Semester: Second**

**September 2020**

**Theory (External): 35 Marks**

**Time: 03 hours**

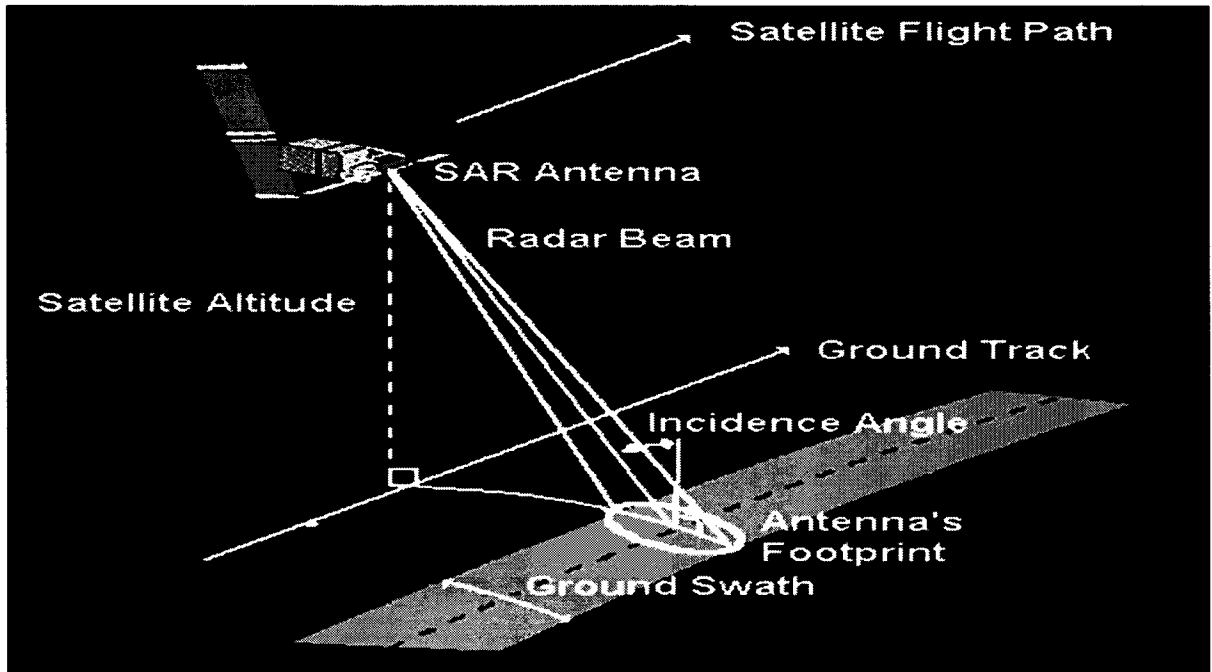
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**INSTRUCTIONS TO THE STUDENTS**

1. Read the questions carefully and write the answers in the answer sheets.
2. Wherever necessary, the diagram drawn should be neat and properly labelled.
3. This questions paper comprises of 8 questions out of which student need to attempt any 4 questions.
4. All questions carry equal marks.
5. The time allotted will be 3 hours for examinations including time of downloading of question paper to emailing of answer books to the concerned Dean/IC.

## ESSAY TYPE QUESTIONS

1. Explain the Synthetic Aperture Radar (SAR) imaging system using the figure provided below.



2. Explain various imaging and non-imaging sensors used in microwave remote sensing.
3. Explain static, interactive and collaborative web mapping.
4. What is Web GIS? Explain major services that can be provided on Web GIS.
5. What are the steps involved in publishing a shape file via geo-server?
6. What is an open source GIS software? Explain its advantages and disadvantages.
7. Explain various security issues in the development of Web GIS.
8. What is Geo-IOT? Explain integration of IOT with GIS.

\*\*\*\*\*END OF PAPER \*\*\*\*\*