No. of Printed Pages: 2

RGYE-010

Ph.D. (GEOLOGY) (PHDGY)

Term-End Examination

00214

December, 2016

RGYE-010: FIELD AND LABORATORY TECHNIQUES IN GEOLOGICAL APPLICATIONS OF REMOTE SENSING AND GIS

Maximum Marks: 50 Time: 2 hours Note: Answer any five questions. Each question carries equal marks. (ii) (iii) Give diagrams wherever required. Elaborate on the elements of visual image 1. interpretation. How do these elements help us to 10 interpret remote sensing imagery? Describe the requirements of ground truthing 2. with reference to remote sensing data analysis. 10 Discuss geometric correction in detail. 10 3. techniques the of image 4. Elaborate 10 transformation. P.T.O RGYE-010

- Describe the steps in supervised image classification. Add a note on its significance.
- 6. Write an essay on the importance of remote sensing data in geological mapping.
- 7. Write short notes on any **two** of the following: $2 \times 5 = 10$
 - (a) Image Interpretation Keys
 - (b) Data Conversion
 - (c) Georeferencing
 - (d) Image Fusion
- 8. Write short notes on any **two** of the following: $2 \times 5 = 10$
 - (a) Data Formats
 - (b) Colour Composite
 - (c) Data Quality
 - (d) Field Safety Measures