

M. Sc. (Geoinformatics) SEM-I (CBCS) (2013 Course) : WINTER - 2018

SUBJECT: FUNDAMENTALS OF REMOTE SENSING

Day: Monday
Date: 19/11/2018

W-2018-1238

Time: 10.00 AM TO 01.00 PM
Max Marks. 60

N.B.

- 1) Answer any **FIVE** questions.
 - 2) Figures to the right indicate **FULL** marks.
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- Q.1** a) Describe the processes of remote sensing with a neat diagram. (06)
- b) Discuss any two applications of remote sensing in forestry. (06)
- Q.2** a) Explain the particle model of EM energy and its significance in remote sensing. (06)
- b) Discuss the characteristics of real remote sensing system. (06)
- Q.3** a) Give the classification of aerial photography on the basis of camera axis adding a note on advantages and disadvantages of each of them. (06)
- b) Explain the process of flight planning for obtaining stereoscopic photography. (06)
- Q.4** a) Describe the operating principles of whiskbroom scanner. (06)
- b) Discuss the factors governing image interpretability. (06)
- Q.5** a) Explain the terms hemispherical reflectance, absorptance and transmittance. (06)
- b) Write a short note on pocket stereoscope. (06)
- Q.6** Write short notes on any **THREE** (12)
- a) Atmospheric windows
 - b) Tones on thermal imagery
 - c) Sensor characteristics of Landsat 8
 - d) Discrepancies in aerial photographs

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