

**M. SC. (GEOINFORMATICS) SEM-I (CBCS) (2013  
COURSE) : SUMMER - 2018  
SUBJECT : FUNDAMENTALS OF REMOTE SENSING**

Day : **Tuesday**  
Date : **10/04/2018**

**S-2018-1109**

Time **10.00 AM TO 01.00 PM**  
Max. Marks : 60

**N.B.**

- 1) Attempt any **FIVE** questions.
- 2) All questions carry **EQUAL** marks.
- 3) Draw diagrams wherever necessary.

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- Q.1** a) Discuss advantages and limitations of remote sensing. (06)  
b) Write a note on tonal characteristics of thermal imaging. (06)
- Q.2** a) Describe the importance of reference data in interpretation of data acquired by remote sensing. (06)  
b) Describe the significance of Kirchoff's Law in remote sensing. (06)
- Q.3** a) What are the discrepancies that occur during acquisition of aerial photographs? (06)  
b) Enumerate the applications of thermal remote sensing with suitable examples. (06)
- Q.4** a) Compare the sensor characteristics of LISS III and LISS IV. (06)  
b) Discuss active and passive remote sensing. Explain advantages of active remote sensing over passive remote sensing. (06)
- Q.5** a) What are orthophotos? Discuss their significance in updating maps. (06)  
b) What is your idea about aerial remote sensing? How does it differ from satellite remote sensing? (06)
- Q.6** Write short notes on any **THREE** of the following: (12)  
a) Wein's displacement law  
b) Photo recognition elements  
c) Spectral reflectance curve of healthy vegetation  
d) Hyperspectral scanner

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