

**III Semester M.Sc. in Geography Examination, May 2014**  
**FUNDAMENTALS OF REMOTE SENSING**

Time: 3 Hours

Max. Marks : 80

**Instructions:** Answer all questions. Those who have opted Kannada may answer in Kannada.

**సూచనగాణ:** ఎలా ప్రతీగళు ఉత్సర్హి. కన్నడ ఆయ్మ మాడిసోండిరువవరు కన్నడదల్లి ఉత్సర్హిసచ్చముదు.

**PART-A****Note :** Answer any four questions.

(5x4=20)

కేళగిన యావుదాదరూ నాల్సు ప్రతీగిలే ఉత్సర్హి.

1. Remote sensing.  
దూర సంవేది.
2. Indian space research organisation.  
భారతీయ బాధ్యకాల సంశోధనా సంస్థ.
3. Thermal remote sensing.  
లుష్ట ఆధారిత దూర సంవేది.
4. Visible part of EMR.  
విద్యుత్తుంతియ వికిరణద దృష్టిగోచర భాగ.
5. Types of Resolution.  
రసల్బూషన్ విధగళు.
6. Scattering of EMR.  
విద్యుత్తుంతియ వికిరణద తడరువికే.

**PART - B****Note :** Answer any three questions.

(10x3=30)

కేళగిన యావుదాదరూ మూరు ప్రతీగిలే ఉత్సర్హి.

7. Give an account of the processes of remote sensing.  
దూర సంవేదియ ప్రక్రియగళన్ను కురితు వివరిసి.

P.T.O.



8. Write a note on the history of remote sensing in India.

ಭಾರತದ ದೂರ ಸಂಪರ್ಕದಿಯ ಇತಿಹಾಸವನ್ನು ಕುರಿತು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ಬರೆಯಿರಿ.

9. Explain the characteristics of polar orbit satellites.

ಧ್ರುವೀಯಗಾಮಿ ಉಪಗ್ರಹಗಳನ್ನು ಕುರಿತು ವಿವರಿಸಿ.

10. Explain how energy interact with earth's surface reactions.

ಭೂ ಮೇಲ್ಮೈನ ಲಕ್ಷಣಗಳೊಡನೆ ವಿಕರಣ ಶಕ್ತಿಯು ವರ್ತಿಸುವ ರೀತಿಯನ್ನು ವಿವರಿಸಿ.

11. Explain the application of remote sensing.

ದೂರ ಸಂಪರ್ಕದಿಯ ಅನ್ವಯಿಕೆಯನ್ನು ಕುರಿತು ವಿವರಿಸಿ.

### PART – C

**Note :** Answer **any two** questions.

(15×2=30)

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

12. Explain the important processes of remote sensing.

ದೂರ ಸಂಪರ್ಕದಿಯ ಮುಖ್ಯ ಪ್ರಕ್ರಿಯೆಗಳನ್ನು ವಿವರಿಸಿ.

13. Give an account of electro magnetic spectrum with a neat diagram.

ವಿದ್ಯುತ್ ಆಯಾಸ್ತಾಂತೀರ್ಯ ವಿಕರಣದ ವರ್ಣ ಪಟಲವನ್ನು ಚಿತ್ರಿಸಿ.

14. Explain spectral reflectance curve with reference to vegetation and water bodies.

ಸಸ್ಯವರ್ಗ ಹಾಗೂ ಜಲರಾಶಿಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಸ್ಪೆಕ್ಟ್ರುಲ್ ರಿಫ್ಲೆಕ್ಟನ್ ಕರ್ವ್ ಕುರಿತು ವಿವರಿಸಿ.

15. Explain geo stationary and polar orbiting satellites.

ಭೂ ಸ್ಥಿರ ಹಾಗೂ ಧ್ರುವೀಯಗಾಮಿ ಉಪಗ್ರಹವನ್ನು ವಿವರಿಸಿ.