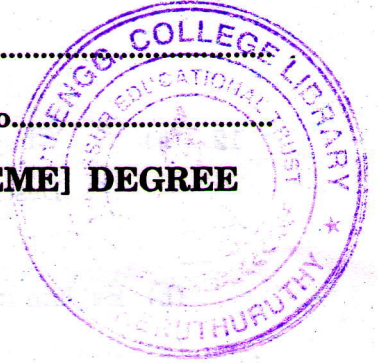


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Name.....

Reg. No.....



**EIGHTH SEMESTER B.TECH. (ENGINEERING) [2014 SCHEME] DEGREE
EXAMINATION, APRIL 2018**

Civil Engineering

CE 14 804 E—REMOTE SENSING AND GIS

Time : Three Hours

Maximum : 100 Marks

Part A

Answer any eight of ten questions.

Each question carries 5 marks.

1. What is Electro Magnetic Radiation ? What is the significance of Electromagnetic radiation in remote sensing ?
2. What are the components of remote sensing ? Explain Briefly.
3. Draw the wave model and explain.
4. Write short notes on scattering.
5. Explain about the earth resources satellite.
6. Define Filtering. What is special filtering ? What are the uses of filtering ?
7. What are the various characteristics of map ?
8. What is GIS ? What are the components of GIS ?
9. Define Vector data and Raster Data- Explain.
10. List various errors in digitizing- Explain any one error in detail.

(8 × 5 = 40 marks)

Part B

Answer Question to Choice.

11. (a) Explain wave theory with the help of planets of Law ? What are the importances of the theory.

(15 marks)

Or

- (b) Explain the different forms of interactions when Electromagnetic wave passes through the atmosphere.

(15 marks)

Turn over

12. (a) (i) What are the active and passive system in remote system. (4 marks)
(ii) Describe how the radar remote sensing system works. (11 marks)

Or

- (b) Explain Indian remote sensing satellite with different features. (15 marks)

13. (a) Briefly explain the digitization and scanning process in GIS. (15 marks)

Or

- (b) Explain the components of GIS with neat diagram. (15 marks)

14. (a) Write a detailed Description on the elements of visual interpretation quoting suitable examples. (15 marks)

Or

- (b) Give *two* applications of remote sensing and GIS in urban area and explain. (15 marks)

(4 × 15 = 60 marks)