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Question Paper Code: 1036038

B.E. / B.Tech. DEGREE EXAMINATIONS, NOV / DEC 2024

Sixth Semester

Civil Engineering

U20CE621 - REMOTE SENSING AND GIS APPLICATION

(Regulation 2020)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

PART – A

(10 x 2 = 20 Marks)

1. What is the application of Remote Sensing?
2. Write Wien's displacement law.
3. Compare active and passive sensors.
4. What is sun synchronous satellite?
5. Differentiate supervised and unsupervised classification.
6. Define digital image processing.
7. Distinguish between spatial and non-spatial data.
8. What is DBMS?
9. Why is compression needed for remote sensing data?
10. What is scanning?

PART – B

(5 x 16 = 80 Marks)

11. (a) Elucidate with neat sketches the components of remote sensing systems. (16)

(OR)

- (b) Describe the spectral reflective characteristics of water, vegetation and soil. (16)

12. (a) Discuss briefly about pay load description of important earth resources and metrological satellites. (16)

(OR)

- (b) Elaborate the various types of platforms. (16)

13. (a) Explain the basics elements and types of image interpretation. (16)

(OR)

- (b) Enumerate the various types of data products. (16)

14. (a) What are map projections? Illustrate the different types of map projections with their characteristics. (16)

(OR)

- (b) Explain the components of GIS with neat diagram. (16)

15. (a) What is data model? Describe the different types of data. (16)

(OR)

- (b) Discuss in detail about land information system. (16)