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**Question Paper Code: U1404**

B.E. / B.Tech DEGREE EXAMINATION, NOV 2024

Professional Elective

Civil Engineering

21CEV404-CARTOGRAPHY AND GIS

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (5 x 1 = 5Marks)

1. The \_\_\_\_\_ may be defined as the representation of the earth's pattern as a whole or a part of it CO2-U  
(a) Scale (b) Diagram (c) Map (d) Map projection
2. The term cadastral is derived from the \_\_\_\_\_ word cadastral meaning register of territorial property. CO2-U  
(a) Greeks (b) British (c) German (d) French
3. Which of the following are the examples of small scale maps? CO2-U  
(a) Wall maps (b) City plans (c) Atlas maps (d) Both (a) and (c)
4. Atlas maps are generally prepared on scale less than CO1-U  
(a) 1: 2,000,000 (b) 1: 1,500,000 (c) 1: 3,000,000 (d) 1: 2,500,000
5. In which of the following sciences maps occupy the most important place? CO1-U  
(a) Oceanography (b) Pedology (c) Climatology (d) Military science

PART – B (5 x 3= 15 Marks)

6. Define Cartography. CO1-U
7. What do you mean by Map Lettering? CO1-U
8. What do you mean by Raster data? CO1-U
9. Define Topology. CO1-U
10. List the various GIS standards in data analyzing? CO1-U

PART – C (5 x 16= 80 Marks)

11. (a) Briefly explain about the Map scales in detail. CO1-U (16)  
Or  
(b) Explain briefly about the Types of Indian Maps in detail. CO1-U (16)
12. (a) Explain in detail about Map reproduction. CO1-U (16)  
Or  
(b) Interpret the role of data quality in GIS CO1-U (16)
13. (a) Enumerate various basic elements in Geo referencing. CO1-U (16)  
Or  
(b) Briefly explain about various types of GPS Data Integration. CO1-U (16)
14. (a) Construct the role of the Temporal Accuracy in detail. CO1-U (16)  
Or  
(b) Explain briefly about GIS Standards in detail.. CO1-U (16)
15. (a) Demonstrate the salient features of Topological Consistency in detail CO1-U (16)  
Or  
(b) Briefly explain about Raster data input. CO1-U (16)