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**B.E. /B.TECH (FULL TIME) DEGREE END SEMESTER ARREAR EXAMINATIONS APR-MAY 2014
REGULATION 2012
GEOINFORMATICS ENGINEERING BRANCH THIRD SEMESTER
GI 8351 CARTOGRAPHY**

Time : 3 Hr.

Max. Marks:100

Instructions: Answer ALL Questions
Illustrate with sketches wherever necessary

PART A (10 x 2 = 20 Marks)

1. What is Map and Map Scale ?
2. List any two Governmental Mapping Organisations in India
3. What is Geoid and how is it related to map coordinate system
4. Draw a neat sketch of Grid System followed in 1:50000 Survey of India Topographical Maps
5. What is a Base Map ?
6. What is meant by resolution of Scanning ?
7. What is Isopleth Map and give an example
8. List any two methods of showing height information on a Map
9. What is Map Generalisation and when is it resorted to ?
10. What is Map Transformation ?

PART B (5 x 16 = 80 Marks)

11. i. With neat sketches explain bilinear and affine Map Transformations (10)
ii. Discuss in detail the web based mapping applications and mobile mapping applications (6)
12. a. i. Describe in detail the evolution of Cartography to Computer Assisted Cartography indicating the timeline (10)
ii. What are the role and functions of National Atlas and Thematic Mapping Organisation in India (6)

(OR)
12. b. i. With a neat sketch explain how maps are classified according to scale and function (8)
ii. Explain the integrated role of Remote Sensing Satellite Data, GIS and GPS in the preparation of Maps (8)
13. a. i. Explain any one projection preserving Direction property with an example (6)
ii. With neat sketches explain UTM Projection and explain its salient characteristics (10)

(OR)
13. b. i. With neat sketches explain in detail the polyconic projection system and discuss its merits
14. a. i. With neat sketches explain in detail various colour systems such as HSV system, CMYK system and RGB system and list the merits of each system

(OR)
14. b. i. Explain in detail the role of colours, patterns, Typography and Lettering in compilation of thematic/general purpose map
15. a. i. Discuss in detail choropleth, daysimetric and isopleth map with an example for each (10)
ii. Explain the salient characteristics of Cadastral and Engineering Maps (6)

(OR)
15. b.i. With neat sketches explain the hardware and software components of Map Reproduction System(10)
ii. Explain the cartographic standards used in Map Production (6)