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B.E./ B Tech (Full Time) END SEMESTER EXAMINATIONS APRIL/ MAY 2011

GEO INFORMATICS ENGINEERING

GI- 9202– CARTOGRAPHY
(REGULATIONS 2008)

Time: 3hrs

Max Marks: 100

Instructions: 1. Draw Neat sketches wherever necessary.

Answer ALL Questions
Part – A (10 x 2 = 20 Marks)

1. Write down the Modern Definition of cartography? Also write the definition of Map.
2. Mention all the elements of Cartography?
3. What are the types of symbols used in the Topographical map?
4. Write a note on latest map numbering system adopted by Survey of India based upon UTM Projection.
5. Mention all the six elements of graphic variables
6. How to represent the height on a topographical map?
7. List the subjects for which topographical maps are directly used.
8. What are the colours used in Indian topo map?
9. What are types of maps?
10. What are the recent advancements in the field of cartography?

Part B (5 x 16 = 80)

- 11.a. Write an essay on the types of map projection. (8)
 - b. State the criteria for the selection of map projection. Write down the salient features of UTM Map Projection. (8)
 - 12.a. Give an account on the Basic Characteristics of maps.
- (Or)**
- b. Write a detailed note on Cartographic relief representation on the topographical maps.

(P.T.O)

13.a. What is Generalization? Write a brief note on the Elements and controls of generalization

(Or)

b. Describe the modern method of map reproduction using the off-set method of printing.

14.a Describe in detail the colour theory and the colour models, used in maps.

(Or)

b. Critically comment on the possible development on the Indian topographical maps.

15.a. Describe UTM plain co ordinate system for the spherical earth.

(Or)

b. Write short note on any **four** of the following

- i) Meta data
- ii) Eye and its perception
- iii) Affine Transformation
- iv) Typonomy
- v) UTM projection system
- vi) Thematic maps
- vii) Digital maps and Electronic Atlas
- viii) Web Cartography

(16)