

**M. SC. (ENVIRONMENT SCIENCE AND TECHNOLOGY) SEM -  
I (CBCS) (2013 COURSE) / M. SC. (GEOINFORMATICS) SEM-I  
(CBCS) (2013 COURSE) / DIPLOMA IN WILDLIFE  
CONSERVATION ACTION SEM – I (CBCS)/ M. SC. (WILDLIFE  
CONSERVATION ACTION) SEM – I (CBCS) 2015 COURSE :  
SUMMER - 2018**

**SUBJECT: FUNDAMENTALS OF GEOINFORMATICS**

Day: **Thursday**

Date: **12/04/2018**

Time: **10.00 AM TO 01.00 PM**

Max Marks. 60

**S-2018-1099**

**N.B.**

- 1) Answer any **FIVE** questions.
- 2) Figures to the right indicate **FULL** marks.

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- Q.1**   a)   What are the different ways in which objects are represented in a map? Give a diagrammatic representation of the real world phenomena as point, line, area and volumetric representation.      **(06)**
- b)   What do understand by data quality? Why is it important? How is it measured?      **(06)**
- Q.2**   a)   What are the principles of map composition? Use examples to support your answer.      **(06)**
- b)   Explain the principle and working of a satellite navigation system.      **(06)**
- Q.3**   a)   Describe the different types and sources of errors in GIS.      **(06)**
- b)   What is database structure? Discuss relational database structure and their advantages over hierarchical and network database structure.      **(06)**
- Q.4**   a)   What is multicriteria analysis? Describe the methodology of multicriteria analysis. Add a note on the pros and cons of MCA.      **(06)**
- b)   Describe pseudo and carrier phase measurements in satellite navigations systems.      **(06)**
- Q.5**   a)   Describe the salient features of the UTM projections.      **(06)**
- b)   Describe the four generic measures of data quality.      **(06)**
- Q.6**            Write short notes on any **THREE**      **(12)**
- a)   Geographic and projected coordinate systems
- b)   Methods of data capture
- c)   VDOP and HDOP
- d)   Network elements
- e)   Union and intersection operations in GIS

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