

**M. SC. (GEOINFORMATICS) SEM-III (CBCS) (2013 COURSE)**  
**: WINTER - 2017**  
**SUBJECT: TRENDS IN GEOSPATIAL TECHNOLOGIES**

Day: **Tuesday**  
Date: **21/11/2017**

**W-2017-1001**

Time: **02.00 PM TO 05.00 PM**  
Max. Marks: 60

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**N.B.:**

- 1) Answer any **FIVE** questions.
  - 2) Figures to the right indicate **FULL** marks.
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- Q.1 a)** What is mobile GIS? What are its advantages? (06)
- b)** In 3D GIS, what is the significance and analytical functions like slope, output and hill shading? (06)
- Q.2 a)** What do you understand by data warehousing? (06)
- b)** What are the technical challenges faced by mobile GIS applications? How do these challenges affect mobile GIS application development? (06)
- Q.3 a)** Write a note on object oriented GIS? (06)
- b)** What is 3D-GS? Describe two applications of 3D GIS? (06)
- Q.4 a)** What is WKT and why is it used in geodatabases? Give examples of point, line and polygon representation in WKT? (06)
- b)** Describe the hardware and software used in Mobile GIS. (06)
- Q.5 a)** Write a note on OpenGIS standards. (06)
- b)** Describe two data mining techniques and their application in GIS. (06)
- Q.6** Write short notes on any **THREE** of the following: (12)
- a)** Location based services
  - b)** Geospatial inter-operability- from sensing to decision support
  - c)** R- tree indexing in geospatial databases
  - d)** ArcObjects

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