

**B.TECH SEM – VIII (2007 COURSE) (INF. TECH.) : WINTER  
- 2017**

**SUBJECT: GIS & REMOTE SENSING**

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

**W-2017-2684**

Time: **2:30 P.M. TO 5:30 P.M.**  
Max Marks: **80**

**N.B:**

- 1) **Q. No. 1 and Q. No. 5 are COMPULSORY.** Out of remaining questions attempt **ANY TWO** from each section.
- 2) Answers to both the sections should be written in **SEPARATE** answer book.
- 3) Figures to the right indicate **FULL** marks.
- 4) Assume suitable data if necessary.

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**SECTION-I**

- Q.1**
- a) Define GIS. Describe the origins of GIS. **(04)**
  - b) Describe GIS data formats & standards. **(05)**
  - c) Enlist & explain components of GIS plan. **(05)**
- Q.2**
- a) Enlist & explain benefits of GIS. **(07)**
  - b) Describe the integration of map data with an example. **(06)**
- Q.3**
- a) Write a short note on vector data & raster data with an example. **(07)**
  - b) Describe open Geo- data interoperability specification (OGIS). **(06)**
- Q.4**
- a) Enlist & explain phases of GIS. **(07)**
  - b) Write a short note on data conversion & maintenance. **(06)**

**SECTION-II**

- Q.5**
- a) Enlist the pitfalls of GIS. **(04)**
  - b) Describe centralized GIS database with an example. **(05)**
  - c) Describe GPS data acquisition with an example. **(05)**
- Q.6**
- a) Explain the effect of lack of user training & R & D support. **(07)**
  - b) Explain failures, benefits, effect of undefined goals of experimentation in GIS. **(06)**
- Q.7**
- a) Explain financial & legal aspects of GIS. **(07)**
  - b) Describe GIS model for financial justification. **(06)**
- Q.8**
- a) Explain processing of remotely sensed data. **(07)**
  - b) Write a short note on principle component analysis. **(06)**