

Total No. of Questions : 4]

SEAT No. :

**PB89**

**[6269]-303**

[Total No. of Pages : 1

**T.E. (Civil) (Insem)**

**REMOTE SENSING & GEOGRAPHIC INFORMATION SYSTEM  
(2019 Pattern) (Semester - II) (301014)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Solve Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Figures to the right indicates full marks.*
- 3) *Assume suitable data if necessary.*
- 4) *Use of electronic pocket calculator is allowed in the examination.*
- 5) *Neat diagrams must be drawn wherever necessary.*

- Q1)** a) Write a note on development of remote sensing technology. [5]
- b) Explain with neat sketch components of remote sensing. [5]
- c) Discuss different applications of remote sensing in civil engineering. [5]

OR

- Q2)** a) Discuss electromagnetic radiations interaction with the earth surface. [5]
- b) Explain in detail the importance of atmospheric window in remote sensing. [5]
- c) Write a note on various elements of remote sensing for visual image interpretation. [5]

- Q3)** a) Discuss the concept of swath and nadir with ketch. [5]
- b) Write a note on Indian remote sensing satellite programs. [5]
- c) Explain different types of remote sensing systems in use. [5]

OR

- Q4)** a) Discuss different types of resolutions used in satellite sensor. [5]
- b) Write different methods of image interpretation and explain any one in detail. [5]
- c) Enlist different open-source satellite data portals with link and use. [5]

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