

No. of Printed Pages : 04

Roll No.

18CC1654

M. Tech. EXAMINATION, 2020

(Third Semester)

(C Scheme) (Main & Re-appear)

CE(SE)

CES627C

**REMOTE SENSING AND GIS IN
ENGINEERING**

Time : 2½ Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Four* questions in all. All questions carry equal marks. Assume if any missing data.

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1. (a) Write in brief about the history of surveying and mapping.
(b) Explain the following terms :
 - (i) Geomatic Surveying
 - (ii) Large and Small mapping
 - (iii) Numbering Surveying.
2. (a) Mention the applications of remote sensing to various Highways of remote.
(b) Give the characteristics of solar radiation energy.
3. (a) Explain in detail about the ideal remote sensing system.
(b) What are Sensor ? Discuss about characteristics of Orbital.
4. (a) What is the phenomenon in satellite that gives you a stereo data product ?
(b) Describe the various remote sensing digital data format.

5. (a) Define topography. What are the main parts of a GIS data model ?
(b) Elaborate Spatial modelling and its functions.
6. (a) Differentiate between space Segment, Control Segment and User Segment.
(b) Give a detailed description of satellite navigation system of GPS.
7. (a) Describe the utility of GIS for the selection of a site for an engineering project.
(b) Mention three broad areas of water resources application where remote sensing can be used.
8. Write in detail :
 - (i) DTED
 - (ii) Data acquisition
 - (iii) Receivers.