

No. of Printed Pages : 03

Roll No.

CC-722

M. Tech. EXAMINATION, Dec. 2018

(Third Semester)

(B. Scheme) (Main & Re-appear)

CE(HSE)

CEH603

GIS IN HIGHWAY ENGINEERING

Time : 3 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 *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(3-37/16)M-CC-722

P.T.O.

Unit I

1. Write short notes on the following :
 - (a) Type of resolution of remote sensing Data
 - (b) Ideal and real remote sensing
 - (c) Type of land use and land cover classification.
2.
 - (a) Write a brief note on Indian Remote Sensing Program.
 - (b) What is spectral reflectance curve and discuss its use ?

Unit II

3.
 - (a) Write a brief about various components of GIS.
 - (b) Discuss various application of GIS in Civil Engineering.
4.
 - (a) Describe various types of GPS errors.
 - (b) Write different data type used in GIS and their application in various civil engineering projects.

Unit III

5. Discuss various process involve in implanting a GIS project.
6. What are the requirement of proper planning, implanting and management for GIS ?

Unit IV

7. Write short notes on application of GIS in :
 - (a) Intelligence transport system
 - (b) Highways alignment.
8. Write short notes on application of GIS in :
 - (a) Environment impact analysis
 - (b) Collecting road inventory.