

KATHMANDU UNIVERSITY
End Semester Examination [C]
July, 2017

JUL 14 2017

Level : B. E.
Year : III
Time : 2 hrs. 30 mins.

Course : CIEG 302
Semester: I
F. M. : 40

SECTION "B"

[8Q × 5 = 40 marks]

Attempt *ANY EIGHT* questions.

1. What do you understand by abstraction? Define raster and vector data model in relation to feature representation: sketch required. [1+4]
2. What is importance of DBMS in GIS? Explain and contrast between the hierarchical and relational system. [2+3]
3. Differentiate the unsupervised and supervised classification approach. Explain process in supervised classification. [2+3]
4. Explain how you will use GIS in reconstruction of houses damaged by earthquake of April 2015. [5]
5. What is dwell time? Explain imaging systems used in remote sensing. [2+3]
6. What is a spectral reflectance curve? Which regions of the spectrum show the largest reflectance for vegetation/soil/water? [2+3]
7. What is atmospheric window? Discuss the effect of atmosphere in remote sensing. [2+3]
8. What are overlay operators? Elaborate using examples of vector overlay. [1+4]
9. Write short notes on: (*ANY TWO*) [2.5+2.5]
 - a. Shadow and Texture
 - b. Topology
 - c. Scale and Generalization
 - d. Errors in digitization

