

B.TECH IN CIVIL ENGINEERING (BTCLEVEL)

Term-End Examination

June, 2011

BICE-006 : GEOINFORMATICS

Time : 3 hours

Maximum Marks : 70

Note : Attempt any seven questions.

All questions are to be answered in English language only.

1. What are the elements of air photo interpretation? 10
Discuss the factors that assist Air Photo Interpretation.
2. Discuss the different elements of planning in 10
Aerial Photography in detail.
3. What do you understand by electromagnetic 10
spectrum? Explain the various interaction of
incident EM energy with the atmosphere.
4. Discuss the following in detail : 10
 - (a) Resolution of a sensor.
 - (b) Orbit of a satellite.

5. Write in detail different Image Enhancement Techniques. 10
 6. What do you understand by spatial data and attribute data ? How are they integrated to make a GIS ? 10
 7. Define GIS. "GIS can work as a decision support system". Comment on it. 10
 8. What do you understand by GPS ? Identify its 3 segments and explain the purpose of each. 10
 9. Discuss the factors which affect the GPS in detail. 10
 10. Write a note on any *two* of the following : 2x5=10
 - (a) GPS receivers.
 - (b) Land use/land cover classification criteria.
 - (c) Spectral reflectance curve.
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