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Code No: CE1506

GEC-R14

II B. Tech I Semester Supplementary Examinations, January 2017

ENGINEERING GEOLOGY AND GIS APPLICATIONS

(Civil Engineering)

Time: 3 Hours

Max. Marks: 60

Note: All Questions from **PART-A** are to be answered at one place.

Answer any **FOUR** questions from **PART-B**. All Questions carry equal Marks.

PART-A

6 × 2 = 12M

1. Define Engineering Geology and Geo-Hydrology.
2. Define general characteristic features of Igneous rocks.
3. Distinguish between symmetrical and asymmetrical folds with the help of figures.
4. Distinguish between ISOSEISMAL and COSEISMAL.
5. Distinguish between spatial and non spatial data.
6. What are the software components of G.I.S.?

PART-B

4 × 12 = 48M

1. Write the physical properties of the following minerals. (12M)
i) Talc ii) Calcite iii) Quartz.
2. Distinguish between Gneiss and Schist. (12M)
3. a) Explain about folds with the help of sketches. (6M)
b) Define unconformity and describe different types of unconformities. (6M)
4. a) Write about causes of Landslides. (6M)
b) Write about causes of Earthquakes. (6M)
5. a) Write about Transverse Mercator projection, its usages and main features. (6M)
b) What are the advantages and disadvantages of Raster data model? (6M)
6. Explain clearly about G.I.S application in Geomorphology and Flood zone delineation. (12M)
