## B.E.(with Credits)-Regular-Semester 2012 - Mining Engineering Sem IV MN401 - Mining Geology-II Paper-II

|     | ages :<br>e : Thi |     | Hours * 4 0 4 3 *  | GUG/W/16/3928<br>Max. Marks : 80 |
|-----|-------------------|-----|--|----------------------------------|
|     | Notes             |     | <ol> <li>All questions carry equal marks.</li> <li>Illustrate your answers wherever necessary with the help of neat s</li> </ol> | ketches.                         |
| 1.  |                   |     | hat do you understand by the principles of stratigraphy? Discuss in brief ological time scale.                                   | the standard 16                  |
| 2.  |                   |     | OR escribe briefly the distribution lithology climate condition and mineral wondwana system in India                             | ealth of 16                      |
| 3.  |                   |     | escribe oxidation and supergene sulphide enrichment process of formation inerals deposits.                                       | on of economic 16                |
| 4.  |                   | Wri | rite short notes on following.   |                                  |
|     |                   | a)  | Placer deposits.   | 8                                |
|     |                   | b)  | Cavity filling deposits.   | 8                                |
| 5.  |                   | Des | escribe various geological characteristics influencing subsidence and roc<br><b>OR</b>   | k bursts. 16                     |
| 6.  |                   |     | hat is Geophysical prospecting? Describe seismic method of geophysical tail.   | l prospecting in 16              |
| 7.  |                   |     | escribe the various zones of ground water in the rocks that occurs below rface. Explain aquifer, aquiclude, aquifuge.            | the earth 16                     |
| 8.  |                   | Wri | rite short notes on following.   |                                  |
|     |                   | a)  | Confined and unconfined aquifer.   | 16                               |
|     |                   | b)  | Hydrological cycle.  |                                  |
|     |                   | c)  | Water table map and their uses.  |                                  |
|     |                   | d)  | Perched water table.   |                                  |
| 9.  |                   | Wh  | hat is remote sensing satellite? How the remote sensing is useful in mini  OR  | ng operations. 16                |
| 10. |                   | Dis | scuss the following.   |                                  |
|     |                   | a)  | Analog and digital data products of remote sensing.  | 8                                |
|     |                   | b)  | G.I.S and its applications.  | 8                                |