| Seat No.: _ | | Enrolment No | | |
|---------------------------|---|---|------------------|--|
| | | GUJARAT TECHNOLOGICAL UNIVERSITY | | |
| | BE- VII th SEMESTER-EXAMINATION - MAY/JUNE- 2012 | | | |
| Subject code: 172204 | | ode: 172204 Date: 28/05/2 | Date: 28/05/2012 | |
| Subj | ect N | Jame: Mineral Processing | | |
| Time: 02:30 pm – 05:00 pm | | 30 pm – 05:00 pm Total Mark | Total Marks: 70 | |
| Insti | | • | | |
| 1. | | mpt all questions. | | |
| 2. | | te suitable assumptions wherever necessary. | | |
| 3. | Figu | res to the right indicate full marks. | | |
| Q.1 | (a) | Write characteristics of Jaw crusher with generalized section figure. | 07 | |
| | (b) | Write characteristics of Gyratory crusher with generalized section figure. | 07 | |
| | | | | |
| Q.2 | (a) | Explain Stationary screen & Vibrating screen. | 07 | |
| | (b) | Explain Shaking table. OR | 07 | |
| | (b) | Explain in brief Froth floatation process. | 07 | |
| | | r | | |
| Q.3 | (a) | Explain Lessing process. | 07 | |
| | (b) | Write important elements of design of Magnetic separator. | 07 | |
| 0.2 | (a) | OR Write factors affecting rate of filtration. | 07 | |
| Q.3 | (a) (b) | Explain Du pont process. | 07 | |
| | (6) | Explain Da point process. | 07 | |
| Q.4 | (a) | Write merits of mineral processing. | 07 | |
| | (b) | Define sample. Write its importance. | 07 | |
| 0.4 | () | OR | 0= | |
| Q.4 | (a) | Explain Hindered settling, Consolidation trickling & Differential acceleration. | 07 | |
| | (b) | Explain any one magnetic separator with figure. | 07 | |
| | (6) | Explain any one magnetic separator with figure. | 07 | |
| Q.5 | (a) | Explain Demagnetizer. | 07 | |
| | (b) | Explain Electrostatic separation. | 07 | |
| 0.5 | | OR | 0.7 | |
| Q.5 | (a) (b) | Draw simplified flow sheet for cleaning & preparation of Bituminous coal. Draw simplified flow sheet for concentration of Copper Sulphide ore. | 07 07 | |
| | (U) | Draw shirpinica now sheet for concentration of Copper Surplinde ofe. | U/ | |
