

GUJARAT TECHNOLOGICAL UNIVERSITY**BE SEM-III Examination May 2012****Subject code: 132201****Subject Name: Introduction to Mining****Date: 09/05/2012****Time: 02.30 pm – 05.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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| Q.1 | (a) Explain types of explosive & properties of explosives | 07 |
| | (b) Explain Diamond drilling with sketch. | 07 |
| Q.2 | (a) Explain basic loading equipments used in mines. | 07 |
| | (b) Which are the various types of drills used in mines? | 07 |
| | OR | |
| | (b) Explain drill ability of rocks. | 07 |
| Q.3 | (a) Which are the various methods of prospecting ? explain it. | 07 |
| | (b) classify Various mining methods for coal & non- coal mines used in India | 07 |
| | OR | |
| Q.3 | (a) Which are the various methods of reconnaissance? explain it. | 07 |
| | (b) Describe general concept of mine development | 07 |
| Q.4 | (a) What are various health & safety aspect associated with mining. | 07 |
| | (b) Effect of mining on surface environment. | 07 |
| | OR | |
| Q.4 | (a) Advantages of under ground mining. | 07 |
| Q.4 | (b) Explain Basic concept of university mining. | 07 |
| Q.5 | (a) Advantages of open cast mining. | 07 |
| | (b) Describe History of mining in India. | 07 |
| | OR | |
| Q.5 | (a) Explain Socio- economic impact of mining. | 07 |
| | (b) Explain (1) difficulties in boring , (2) Directional drilling | 07 |
