| Seat No.: | Enrolment No. |
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GUJARAT TECHNOLOGICAL UNIVERSITY

| Ç., | hioo | BE - SEMESTER-VII (NEW) - EXAMINATION – SUMMER 2017 t Code: 2172201 Date: 29/04/20 | 117 |
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| | • | t Code: 2172201 Date: 29/04/20 t Name: Mine Plannning | 11/ |
| Ti | me: (structi | 02.30 PM to 05.00 PM Total Marks: ons: | 70 |
| | 2 | Attempt all questions.Make suitable assumptions wherever necessary.Figures to the right indicate full marks. | |
| Q.1 | (a) (b) | What is mine planning? Explain mine planning & its components. Explain following term: (1) Bench (2) Bench Height (3) Burden (4) Slope Stability (5) Stripping Ratio (6) Powder Factor (7) bench width. | 07 07 |
| Q.2 | (a) (b) | What is reserve estimation? Explain any one method of reserve estimation. What is the difference between Open cast mining and underground mining? OR | 07 07 |
| | (b) | Write a note on role of planning in mining ventures. | 07 |
| Q.3 | (a) (b) | Explain (1) Life of mine (2) Rate of production. What is cut off grade? What do you mean by basic difference cut off grade? Explain its determination. | 07 07 |
| | | OR | |
| Q.3 | (a) (b) | What is advantage & disadvantage of open pit mine working? Write a note on Details project report. | 07 07 |
| Q.4 | (a) (b) | Explain the role of feasibility report for metallic and non-metallic minerals. Explain the different between Geological reserve and mineable reserve. OR | 07 07 |
| Q.4 | (a) | What is the importance of haul road in opencast mine? Describe the parameters Affecting haul road design. | 07 |
| | (b) | Describe: Taylor's mine life rule. | 07 |
| Q.5 | (a) (b) | How is ore reserve estimated? What is the role of bench geometry and mine layout? OR | 07 07 |
| Q.5 | (a) | Write a short note on 'Mine closure Planning' | 07 |
| · | (b) | Explain mine system and sub-system. | 07 |
