

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (NEW) - EXAMINATION – SUMMER 2017

Subject Code: 2182203

Date: 04/05/2017

Subject Name: Mining & Processing of Dimensional Stone

Time: 10:30 AM to 01:00 PM

Total Marks: 70

Instructions:

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

- Q.1** (a) What is Abrasive? Write short note on: Abrasive properties of dimensional stone. **07**
(b) Explain various types of polishing machine (with figure). **07**
- Q.2** (a) Explain the various classification of marble. **07**
(b) Explain various criteria for selection of dimensional stone deposit. **07**
- OR**
- (b) Explain limestone resource in India. **07**
- Q.3** (a) Explain neat sketch of Diamond wire saw. **07**
(b) Write advantages & disadvantages of use of wire saw cutting methods. **07**
- OR**
- Q.3** (a) Which type of Marble rock? Explain marble resource in Gujarat. **07**
(b) Explain the various physical and chemical properties of limestone. **07**
- Q.4** (a) Explain the uses and marketing / export of dimensional stone. **07**
(b) Explain following term: (1) Royalties (2) Taxes (3) Penalties (As per DGMS Circular) **07**
- OR**
- Q.4** (a) Describe chain saw with diagram. **07**
(b) Describe derrick crane with diagram. **07**
- Q.5** (a) Describe the Environmental impacts of mining and processing of dimensional stone. **07**
(b) Write short note on: Automatic tiling plant. **07**
- OR**
- Q.5** (a) Describe various type of prospecting and exploration of dimensional stone deposits. **07**
(b) Write short note on Flame jet Cutting. **07**
