Enrollment No: _____

PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY M.Tech. Summer 2018 – 19 Examination

Semester:2 Subject Code: 203215182 Subject Name: Engineering Rock Mechanics	Date: 10/05/2019 Time: 10:30 AM TO 1:00 PM Total Marks: 60
Instructions:1. All questions are compulsory.2. Figures to the right indicate full marks.3. Make suitable assumptions wherever necessary.4. Start new question on new page.	
Q.1 A) What the strength criteria's in Rocks? Explain any two.	(05)
B) What are the different Grouting Techniques used in Rocks? Explain	n any one. (05)
C) Explain unconformity of rocks and its various classification	(05)
Q.2 Answer the following questions. (Attempt any three) (Each five mark	k) (15)
A) Discuss the different physical properties of rocks.	
B) Discuss the rheological behavior of rocks in detail	
C) Demonstrate the field tests that must be carried out on rocks	
D)Explain the different types of stresses and strains developed in rock	S
Q.3 A) Define Folds. Classify the different types of folds and explain any	two. (07)
B) Enlist the different criterion of failure for Rocks. Explain Mohr- Co	oulomb Theory (08)
B) Describe the concentration of stresses near the underground openin	gs. (08)
Q.4 A) Define Metamorphic Rocks. How they are formed? Classify its typ	es. (07)
OR A) Explain the detailed classification of the rocks.	(07)
B) Describe the stress- strain relationship of rocks in detail	(08)