Semester: Mid Semester Examination

Course Title: Geology and Geomorphology

Course No.: GS 4351

'felsic' magma?

Winter Semester: 2022-2023

Full Marks: 75

Time: 1.5 hours

(5+6)

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT) ORGANISATION OF ISLAMIC COOPERATION (OIC)

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

There are 3 (Three) Questions. Answer all questions. Programmable calculators are not allowed. Do not write on this questions paper. The symbols have their usual meaning. Assume reasonable values for any missing information.

1(a)	Continent etc) with neat sketches of movement directions and resulting plate deformations. Also, provide at least one example of each type of boundary.	(12) [CO1 PO1]
(b)	What do you understand by i) strike, ii) anticline, iii) geologic dome, and iv) strike-slip fault? Explain with sketch.	(7) [COI POI]
2(a)	Identify the plate boundaries near Bangladesh, specifying their type and movement direction. Write down the Mohe banks are the second of the	(6) [CO1 PO1]
(b)	Write down the Mohs hardness scale and at least one mineral associated to each hardness number. Distinguish betwenn cleavage and fracture of a mineral.	(8+4) [CO2 PO1]
(c)	Distinguish between regional and contact metamorphism. What is meant by 'foliations'? What to you understood by D.M.C. or what is meant by 'foliations'?	(4+3) [CO2 PO1]
	What do you understand by i) lithification, ii) ripple marks, iii) weathering?	(6) [CO2

3(a) Discuss the process of fractional crystallization. What do you understand by 'mafie' and

(b) Discuss the process of Diagenesis. What do you understand by i) conglomerate, ii) chemical

sedimentary rocks, iii) extrusive and intrusive magma? (c) Write down different types of silicate streuture with at least one mineral example.