

Salahaddin University
 College of Science
 Department of Earth Sciences & Petroleum
 2nd Class



Monthly Examination of
 (Ign. & Met.) Petrology
 Date: 4/3/2024
 Time: 1 hour

Q1) A/ Give the mineralogical compositions of these rocks and give its equivalent “15 mark”

	<i>Rocks</i>	<i>Mineral composition</i>	<i>equivalent</i>
1	Olivine gabbro		
2	Trachyte		
3	Diorite		
4	Granite		
5	Dacite		

B/ Give two examples for the following: (20 marks)

Feldspathoid minerals	
Pyroxene group	
Cavity and filling textures	
Ultrabasic rocks	
Pyroclastic rocks	

Q2) Complete the following Sentences: (20 marks)

1- According to quartz saturation, igneous rocks classified into: “6mark”

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2- Phaneritic textures are divided to “8mark”

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3- Mention the discontinuity and their location in interior of earth “6 mark”

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Q3) Write the chemical formulas of the following minerals: (answer “5”) (10 marks)

Olivine	Orthoclase
Nepheline	Quartz
Albite	Calcite

Q4) Draw and write partition of *Ophiolite* (15 marks)

Q5) Write briefly the major mechanisms of magma differentiation and evolution. (20 marks)

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Dr. Mohammed M. Zrary
Lecture of Petrology