

<b>Damietta University Faculty of Science Geology Department</b>	 جامعة دمياط Damietta University	<b>Second Year Chemistry/Physics</b>
<b>Practical Exam August 2020</b>		
<b>Geochemistry</b>		

**(Q1)**

**Without any calculations, define the type of rock:**

<b>Oxides</b>	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O	CO <sub>2</sub>
<b>Wt%</b>	65.92	0.67	15.76	1.39	2.59	0.07	1.59	3.86	3.94	3.47	0.21	0.56	0.07
<b>Mol.Wt</b>	60	80	102	160	72	71	40	56	62	94	142	18	44

**1.**

<b>Oxides</b>	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O	CO <sub>2</sub>
<b>Wt%</b>	59.41	0.83	17.12	2.19	2.83	0.08	2.02	4.06	3.92	6.53	0.38	0.63	0.02
<b>Mol.Wt</b>	60	80	102	160	72	71	40	56	62	94	142	18	44

**2.**

<b>Oxides</b>	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	H <sub>2</sub> O	CO <sub>2</sub>
<b>Wt%</b>	51.86	1.5	16.4	2.73	6.97	0.18	6.12	8.4	3.36	1.33	0.35	0.8	0.00
<b>Mol.Wt</b>	60	80	102	160	72	71	40	56	62	94	142	18	44

**3.**