Theoretical Examination Sedimentary Rocks First Trial

2rd Year Class Time: 2 Hour 2023-2024

Q1/ F	(10 Marks)					
1-	Sedimentary rocks are the product of the,,	,				
	and of detritus and solutes derived from pre-existing rocks.					
2-	- Sediment is unconsolidated material that accumulates at the earth's surface, composed mainly of					
3-	- Transporting agents (waters, glaciers and winds) carrying loose sediments where the, control the sediment load.					
4-	The amount of rounding and sorting depends on,,	, and				
5-	Diagenesis is the term used for all the changes in sediment undergoes afterthe transition to	and before				
6-	Sedimentary texture refers to the,, and, and make up a sedimentary rock.	of the grains that				
7-	The sediment sphericity can be classified into two classes; and					
Q2/ a-	Define sorting and mention the factors controlling sediment sorting.	(10 Marks)				
b	- Define rounding and mention the factors controlling grain rounding.					
Q3/ a-	Draw one of the classifications showing the gravel, sand and mud mixture.	(10 Marks)				
b	- Draw the sandstone classification after Pettijohn.					
Q4/ W	Vrite in detail about fine-grained sedimentary rocks including; Grain size, Pa	- ′				
Micro	fabric, Sedimentary structures, Mineralogy, Organic matter, and Color.	(10 Marks)				
Q5/ D	escribe the carbonate rocks with their components and mineralogy.	(10 Marks)				

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Q1/ Determine the following branches of question by signing true or false.

(10 Marks)

- 1- The sedimentary rocks formed under the earth's surface with abnormal temperature and pressure, typically in extensive, horizontal layers.
- 2- Sedimentary rocks cover \sim 5% of Earth's surface in continental areas and compose about \sim 75 % of the upper crust.
- 3- Lithification is the transformation of loose sediments into solid rock.
- 4- During transportation, sediment size is often increased depending on chemical resistance and physical durability.
- 5- The sediments become more rounded and sorted with decreasing the distance of sediment transport.
- 6- Physically durable and chemically stable minerals are more resistant to transporting distance.
- 7- Diagenesis is the term used for all of the changes that sediment undergoes before deposition and after the transition to metamorphism.
- 8- Mud particle size is larger than 1/16 including silt and clay.
- 9- Sorting refers to uniformity of grain sizes and it is a spread of the grain-size distribution.
- 10-Sphericity is the degree of edge or corner smoothness.

Q2/ List the importance and reasons for studying sedimentary rocks. (10 Marks)

Q3/ Define porosity and permeability and write their equations. (10 Marks)

Q4/ Write on sandstone classification with drawing Folk classification. (10 Marks)

Q5/ Mention the field terminology of carbonate rocks depending on composition, texture and biocontents. (10 Marks)

Theoretical Examination Sedimentary Rocks Second Trial

2rd Year Class Time: 2 Hour 2022-2023

Q 1/ Write in detail about sediment transport, transporting methods, and show their relation with grain sizes. (7 Marks)

Q 2/a- Define the sorting and mention their classes; support your answer with drawings. (6 Marks)

b- Define the angularity and mention their classes; support your answer with drawings. (4 Marks)

Q 3/ Describe coarse grain clastic sedimentary rocks with their classification depending on texture, clast composition and origin. (6 Marks)

Q4/ Mention the main mineralogical types in sandstones. (6 Marks)

Q5/ Show the main bases of sandstone classification and draw a Folk triangular diagram. (6 Marks)

Q6/ What are the types of fine to very fine clastic sedimentary rocks and clarify in detail the mudrocks. (7 Marks)

Q7/ a- List with brief description the grains in carbonate rocks. (8 Marks)

b- Show the reason of studying carbonate rocks.

Good Luck

Dr. Sirwan Sakry

Theoretical Examination Sedimentary Rocks 2023-2024

2rd Year Class Time: 1 Hour

Note: Answer four questions only

Q 1/ Write in detail about sediment transport, transporting methods, and show their relation with grain sizes. (20 Marks)

Q 2/a- Define the sorting and mention their classes; support your answer with drawings. (12Marks)

b- Define the angularity and mention their classes; support your answer with drawings. (8Marks)

Q 3/ Describe coarse grain clastic sedimentary rocks with their classification depending on texture, clast composition and origin. (20 Marks)

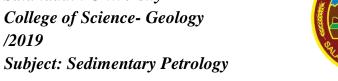
Q4/ Mention the main mineralogical types in sandstones. (20 Marks)

Q5/ Show the main bases of sandstone classification and draw a Folk triangular diagram. (20 Marks)

Good Luck

Dr. Sirwan Sakry

Salahaddin University College of Science- Geology /2019



Stage: Second Date: 22 / 12

Time: 1:30 H.

Mid-Course Examination, (2019-2020)

Note:	Answer on total of 75 marks.				
Q1/ Fi	Il the following blanks by suitable words: (3	0			
1-	Sedimentary rocks are developed throughout these processes,,,				
2-	Transporting agent (waters, glaciers and winds) carrying loose sediments where the, controlling the sediment load.				
3-	and				
4-	Sediment transported by these methods and and				
5-	The different kind of processes that come under the term diagenesis are,				
6-	Sediment lithologies can be grouped into four broad categories,,, and				
7-	Sedimentary texture: refers to the,, and, andthat make up a sedimentary rock.				
8-	B- Maturity is a function of sediment transport and classified to two main types				
9-	Sedimentary structures in relation to depositional process can be classify into;, and, and				
10-	The importance of sedimentary structures can be summarized in three points;,				
Q2/ Do	efine sedimentary rocks and classify according to the type of material and the modes of ition.				
_	now the relations between sediment transport and following points supporting your answer large where needed:- (1!	-			
) Grain Size b- Roundness and Sorting c- Mineral intensity				

Marks)	aning of sorting and mention	i their classes.	(10	
Q5/ Write in detail about cross Marks)	s-bedded and ripples marks.		(20	
Q6/ Classify coarse grain clastic sedimentary rocks depending following features:- Marks)				
a- Texture or packing	b- Clast composition	c- Origin		

Good Luck

Dr. Sirwan Sakry