
	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY		
	EXAMINATION FOR SOPHOMORES (THIRD YEAR) STUDENTS OF SPECIAL GEOLOGY		
COURSE TITLE:	QUATERNARY GEOLOGY		COURSE CODE: GE3216
DATE:	9 JUNE, 2014	TERM: SECOND	TOTAL ASSESSMENT MARKS: 100
			TIME ALLOWED: 2 HOURS

I) Answer the following questions illustrating your answer with clear drawing:

- 1) Explain the concept of Quaternary Geology? (20 Marks)
- 2) What is the main Subdivision of the Quaternary System? (10 Marks)
- 3) Explain the difference between Glacial Geology and Glaciology (10 Marks)
- 4) Explain the concept and the main characters of the Paleolithic age? (20 Marks)
- 5) What is the concept and the Elements of Glaciology? (20 Marks)
- 6) Write about the Pleistocene Glaciations and interglacial stages. (20 Marks)

Good Luck

Examiners	Prof. Abdelfattah Ali Zalat
	Prof. Abdel-Monem T. Abdel-Hameed

	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY		
	EXAMINATION FOR THIRD LEVEL GEOLOGY (Special)		
COURSE TITLE:	Structural Geology II	COURSE CODE: GE3214	
DATE:	7/6/ 2014	TOTAL ASSESSMENT MARKS: 100	TIME ALLOWED: 2 HOURS

A) Write short notes about the followings (with drawing if present): (45 marks)

- 1- Morphological features used in the description of spaced foliation.
- 2- General characteristics of shear zones.
- 3- Importance of studying joints and shear fractures.
- 4- Types of mineral lineation.
- 5- Classification of porphyroblasts.


B) Put (✓) in front of the correct phrase and (X) in front of the wrong phrase with error correction. (25 marks)

- 1- Disjunctive foliation is defined by microlithons with no microfolds and the domainal structure can be seen with the unaided eye()
- 2- A common example of a semi-brittle shear zone is a zone of en echelon veins()
- 3- Tectonites are ductilely deformed rocks formed by the accumulation of large shear strain, in ductile fault zones.....()
- 4- Crenulation lineation is defined by the closely spaced fold hinges of the microfolds in a crenulated rock.....()
- 5- Mica fishs are wedge-shaped areas composed of less deformed matrix or of minerals that grew or recrystallized during deformation.....()
- 6- Shear bands display regular, repeated, fold-like forms, ranging in wavelength from centimeters to meters()
- 7- S-C fabrics are thin zones of very high shear strain within the main shear zone()
- 8- A fault is called a shear fracture if its dimensions are smaller than one meter.....()
- 9- Cleavage is a secondary fabric element, formed under low-temperature conditions, that imparts to the rock a tendency to split along planes.....()
- 10-Protomylonite is highly deformed and fine-grained rock containing more than 90 percent matrix and less than 10 percent relict grains..()

C) Compare between the following (with drawing if present): (30 marks)

- 1- Delta and sigma-type prophyroclasts.
- 2- Transpression and transtension.
- 3- Mullion and boudinage.
- 4- Brittle and ductile shear zones.

EXAMINERS	Prof. Mohamed Abd El-Wahed	Prof. Mohamed Atef Noweir
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	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY			
	EXAMINATION FOR LEVEL THREE GEOLOGY SECTION			
	COURSE TITLE:	Engineering Geology		COURSE GE3210
DATE:	JUNE 2, 2014	TERM: SECOND	TOTAL ASSESSMENT MARKS : 100	TIME ALLOWED: 2 HOURS

Answer the following questions:

- 1- **Compare** between the followings: **(30 marks)**
- a- Mine and transportation tunnels.
 - b- Strong rocks and weak rocks; give example of each type.
 - c- Falls and topples types of movements with drawing.
 - d- Geological and human causes of landslides.

- 2- **Write** on the followings: **(30 marks)**
- a- Advantages and disadvantages of the Aswan High Dam.
 - b- Flow landslides depending on speed of failure.
 - c- Slope stability.
 - d- Atterber Limits.

- 3- **Write** with **drawing** on the different types of concrete dams. Explain the characteristics of each type? **(20 marks)**

- 4- **Explain** in **details** the methods used in geotechnical site investigation? **(20 marks)**

Examiners	Prof. Mohamed Atef Noweir	Prof. Samir M. Ali
	Prof. Abdelsalam Rashad	Prof. Ibrahim Salem



TANTA UNIVERSITY
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RESIT EXAMINATION FOR JUNIORS (THIRD YEAR) STUDENTS OF GEOLOGY

COURSE TITLE:	TECTONIC GEOLOGY		COURSE CODE: GE 3202
DATE:	14/6/2014	TERM: SECOND	TOTAL ASSESSMENT MARKS: 100
			TIME ALLOWED: 2 HOURS

Answer the following question:

(Illustrate your answers with drawing whenever possible)

1. Write in detail on the following: (30 marks)

- a) Different scales of geologic structures. (10 marks)
- b) Orthogeosynclines and their role in mountain building. (10 marks)
- c) Pangaea, the supercontinent. (10 marks)

2. Write an account on how the plate tectonics theory was formulated and the emergence of the concept of Wilson Cycles. (25 marks)

3. Outline the possible mechanisms of driving forces for plate tectonic movements. (25 marks)

4. Discuss the role of magnetic stripes in the determination of past rates of plate velocities. (20 marks)

Good Luck!

EXAMINERS	PROF. ABDELAZIZ L. ABDELDAYEM	



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EXAMINATION FOR SOPHOMORES (THIRD YEAR) STUDENTS OF SPECIAL GEOLOGY

1969	COURSE TITLE:	TECTONIC GEOLOGY		COURSE CODE: GE3202
DATE:	MAY, 2014	TERM: SECOND	TOTAL ASSESSMENT MARKS: 100	TIME ALLOWED: 2 HOURS

1- Write short notes on the following. Illustrate your answers with diagrams wherever is possible.

- a- Evidences of continental drift------(22 marks)
- b- Wilson tectonic cycle------(12 marks)
- c- Types of plate boundaries------(22 marks)
- d- Subduction zones and trenches -----(13 Marks)
- e- Continental margins and types of continental margins------(13 Marks)
- f- Volcanoes and types of volcanoes------(13 Marks)
- g- Transform faults------(5 Marks)

Best wishes

Examiners	Prof. Dr. Gaafar El Bahariya	Dr. Ismail Thabet
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Answer the following questions (Sketch maps and diagrams should be drawn whenever possible) :

1- Complete the followings sentences : (20 marks)

- The unconformity can be recognized from and
- The capacity of fold to hold oil depends on and
- Structures of the Gulf of Suez are essentially of NNW - SSE trend .
- Isolith map shows
- Subsurface geology deals with and interpreting
- Tectofacies map shows
- In construction of cross section, two considerations are important and
Cross sections are divided into two general groups and

2- Write on the Nile Delta basin ? (20 marks)

3- Write briefly on the role of geophysical methods as sources of information for subsurface investigation. (20 marks)

4- Compare between the following : (16 marks)

- Percentage map and isopach map.
- Structure contour map and sand / shale ratio.

5- What are the reasons behind the following features (24 marks)

- Variation in thickness of a certain stratigraphic unit.
- The facies change of a certain stratigraphic sequence.
- The development of negative and positive closures as delineated by structure contours.