



جيولوجيا

	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY		 1989
	FINAL EXAMINATION FOR FOURTH LEVEL (SPECIAL GEOLOGY)		
COURSE TITLE:	PHANEROZOIC GEOLOGY OF EGYPT	COURSE CODE:	GE 4101
JANUARY 2017	TOTAL ASSESSMENT MARKS: 100	TIME ALLOWED:	2 HOURS

**ANSWER THE FOLLOWING QUESTIONS:**


1. Write briefly on the main global tectonic events that have directly or indirectly affected the Paleozoic and Cenozoic geology of Egypt. (10 Marks)
2. Egypt, which forms a part of the great African Craton, can be subdivided into five great structural units. Write in details ONLY on the Stable Platform, Unstable Shelf and the Gulf of Suez regions. (20Marks)
3. Geographically, Egypt is composed of several distinct regions or provinces. Write briefly on the main features characterizing the Eastern Desert, the Western Desert, and the Sinai Peninsula. (20 Marks)
4. Write in details and illustrate with drawing the main landmasses during the Phanerozoic. (10 Marks)
5. State the: Economic or Stratigraphic importance, Type locality, Lithology, Geographic distribution and Age assignment for each of the following rock units;  
a) *Hamammat Sediments* b) *Naqus Formation*  
c) *Um Bogma Formation* d) *Abu Nusra Formation* (20 Marks)  
e) *Safa Formation*
6. Discuss briefly the subsurface Paleozoic rock units in Siwa Basin. (10 Marks)
7. Construct the lithostratigraphic section of the exposed Jurassic rock units at Gabal El Maghara, northern Sinai. (10 Marks)

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A ية العلوم - جامعة طنطا  
U QUALITY ASSURANCE U  
FACULTY OF SCIENCE

EXAMINERS	Prof. Abdelmonem T. Abdel-Hamid	Prof. Hamza Khalil
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عبد الوهاب

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	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY		
	EXAMINATION FOR THE 4 <sup>TH</sup> LEVEL GEOLOGY STUDENTS (SPECIAL)		
COURSE TITLE:	Facies Analysis & Depositional Environments	COURSE CODE: GE 4115	
DATE: JANUARY, 2017	TERM: FIRST	TOTAL ASSESSMENT MARKS: 100	TIME ALLOWED: 2 HOURS

Answer the following questions:

1- Explain the meaning of: (20 Marks)

- |                     |                    |
|---------------------|--------------------|
| a) Facies patterns  | b) Facies types    |
| c) Facies migration | d) Facies analysis |


2- Write briefly on Walther's law of the correlation of Facies. (20 Marks)

3- Explain briefly the morphologies of shallow marine carbonate-forming environments. (20 Marks)

4- Write short notes on the coastal carbonate and evaporate environments. (20 Marks)

5- Explain with drawings the reef settings. (20 Marks)

EXAMINERS	DR. AHMED EL SHEISHTAWY	DR. TAREK ABDEL MONSEF
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	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY				
	EXAMINATION FOR FRESHMEN (4TH YEAR) STUDENTS OF SPECIAL GEOLOGY				
	COURSE TITLE:	SPECIAL COURSE (2) Computer Applications in Geosciences		COURSE CODE: GE 4125	
DATE:	15 JANUARY, 2017	TERM: 1ST	ASSESSMENT MARKS: 50	TIME: 2 HOURS	


**WRITE ON THE FOLLOWINGS, SUPPORTED WITH DRAWINGS:**

- 1- Main four functions implemented in LINDA 10 MARKS
- 2- Scales of applications of DEMs in Environmental Modeling. 10 MARKS
- 3- Data sources, generation and manipulation techniques of DEMs. 10 MARKS
- 4- TINs and Regular Grids for representing elevation data. 10 MARKS
- 5- Watershed Analysis Using DEMS 10 MARKS

**Examiners:** Prof Alaa A. Masoud & Dr Samir Zaki Kamh

BEST WISHES



	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY			
	EXAMINATION FOR FRESHMEN (4TH YEAR) STUDENTS OF SPECIAL GEOLOGY			
	COURSE TITLE:	SPECIAL COURSE (2) Computer Applications in Geosciences		COURSE CODE: GE 4125
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**Examiners:** Prof Alaa A. Masoud & Dr Samir Zaki Kamh

BEST WISHES



8/10/2017 - 10/10/2017

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	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY		
	EXAMINATION FOR SENIOR (LEVEL FOUR) STUDENTS OF GEOLOGY		
	COURSE TITLE:	HYDROGEOLOGY 1	
DATE: JAN, 2017	TERM: FIRST		TIME ALLOWED: 2HOURS

Answer the following questions (Sketch maps and diagrams should be drawn whenever possible).

1- Write on of the followings: (20 Marks)

a- Drainage systems.

b- Climate change effect on the water cycle

2- What is well efficiency and how it could be determined using two different pumping test methods. (25 Marks)

3- Discuss the following in details: (25 Marks)

a- Aquifer, confined and unconfined aquifer, isotropic and anisotropic aquifer, and homogeneous and heterogeneous aquifers

b- Depression cone

4- Explain the difference between the followings: (20 Marks)

a- Elevation head, pressure head, hydraulic head and depth to water.


b- Steady and unsteady pumping test conditions.

c- Storage coefficient in confined and unconfined aquifers

4- Write short notes on groundwater flow net. (10 Marks)

EXAMINERS	DR. ZENHOM SALEM	
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8/1/17 6/1/17 2/1/17

				TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY			
EXAMINATION FOR FOURTH LEVEL STUDENTS							
COURSE TITLE:		PETROLEUM GEOLOGY -1				CODE NO. GE 4109	
DATE:	JANUARY , 2017	FIRST TERM	TOTAL ASSESSMENT MARKS: 100			TIME : 2 HOURS	

**1- Give reasons on the followings :** (30 marks)

- Bacteria play a role in transformation of organic matters into petroleum.
- The total organic carbon is used in source rock evaluation.
- Not two petroleum compositions are alike.

**2- Discuss the following subjects:** (30 marks)

- Primary porosity.
- Permeability phase system.
- Cap rock types.

**3- Compare between the followings :** (10 marks)

- Biogenic and thermogenic hydrocarbons.
- Pour and boiling points of oils.

**4- Complete the following :** (10 marks)

- Viscosity of oil is defined as .....
- Solution porosity types are ....., ..... & .....
- Commercial oil can be classified into ....., ..... & .....
- ..... & ..... have optical activity though they are inorganic substances.

**5- Give an account on the chemical reservoir rocks.** (20 marks)

EXAMINERS	PROF.DR. NADER ELGENDY	DR. SHADIA ABDELRAHEEM
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