1969

TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY

EXAMINATION FOR SECOND LEVEL STUDENTS OF (GEOLOGY) - (GEOPHYSICS) - (GEOLOGY-CHEMISTRY)

COURSE TITLE: MICROPALEONTOLOGY (1) COURSE CODE: GE 2109

ATE: JANUAR, 2016 TERM: FIRST TOTAL ASSESSMENT MARKS: 100 TIME ALLOWED: 2 HOURS

1) Write short notes <u>on Five</u> of the following questions. Illustrate your answers with clear drawings and give examples:

U	I willigs and Sive examples.		
Α	. Mixed chambers arrangement of test.	(Five only)	(10 Marks)
		(Five only)	(10 Marks)
	. Mode of coiling in foraminifera		(10 Marks)
	Sutures in Foraminifera.		(10 Marks)
			(10 Marks)
	. Dimorphism in Foraminifera.		,
F	. Application of Foraminifera		(10 Marks)

2) Give Examples:

(15 Marks)

- A. Biumbonate test.
- B. Surface ornamentation.
- C. Lobulate periphery.

3) Explain in details the factors controlling the distribution of foraminifera. (20 Marks)

4) Choose the correct answer of the following questions:

(15 Marks)

- 1. Microfossils are generally excellent indicators of
 - a) Tectonics
- b) Earthquake
- c) paleoecology
- d) Paleogeography

Foraminifera is

- a) Unicellular animal b) Unicellular plant c) Multicellular animal d) Multicellular plant
- 3. Agglutinated foraminiferal test is formed of
 - a) Calcareous wall
- b) Siliceous wall
- c) Chitineous Walls d) coarse/fine cemented particles
- 4. Porcelaneous foraminiferal test is:
 - a) Perforate
- b) semiperforate
- c) imperforate
- d) non-perforate

- 5. Unilocular foraminiferal test is
 - a) septate
- b) non septate
- c) simply septate
- d) limbate

Best wishes

		Prof. Mahmoud Faris Mohamed	Prof. Abdelfattah Ali Zalat	
	Examiners	Prof. Akmal Marzouk	ضمان الجسودة ۞ وا	وحسدة
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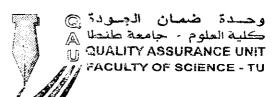


TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY

EXAMINATION FOR LEVELTWO STUDENTS OF PETROLEUM AND MINING GEOLOGY PROGRAM

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	1969	COURSE TITLE:	STI	RUCTURAL GEOLOGY **	COURSE CODE PMGP 2103
	DATE:	27 DEC., 2017	TERM: FIRST	TOTAL ASSESSMENT MARKS: 180	TIME ALLOWED: 2 HOURS

I- Complete the following:-	(30 marks)
1- The hinge point coincides on the trough point in case of:	
2- The orientation of a planar structure is measured in terms of:	and
3- Non-plunging fold has horizontal and vertical	
4- Folds are considered to be open, if they display interlimb angles ranging from	om:
5- The trend of North Sinai Fold Belt is:	
6	al constituents.
(c)	containing more than 90 ation in same area. only island-like remnants
II- Put $()$ in front of the correct phrase and (X) in front of the w-correction.	rong phrase with error (15 marks)
 1- A listric fault in which the fault plane is curved and the dip of the shallower with increased depth. 2- The heave of the fault is the vertical component of the dip separa 	()
3- Continuous foliation cut all the rock and the fabric elements are ladistributed, to the scale of grain individual minerals	()
4- Cleavage is a secondary fabric element, formed under low-tempimparts to the rock a tendency to split along planes	
5- Flats are regions on thrust faults where stratigraphy is truncated a angles	







FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY

EXAMINATION FOR SECOND YEAR STUDENTS OF GEOPHYSICS

COURSE TITLE OPTICAL MINERALOGY COURSE CODE: GE 2105

E: JANURY 2018 TERM: FIRST TOTAL ASSESSMENT MARKS :100

TIME ALLOWED:2 HOURS

Answer the following questions, illustrating your answers with diagrams if it possible:

1-Write short notes on the following:

a –Two methods of light polarization(10 marks)				
b- Mechanism of interference figure formation(10 marks)				
c- Anisotropic minerals(10 marks)				
d- Interference colours and their orders in anisotropic mnerals(10 marks)				
2-Discriminate between the following:				
a- Interference figures of uniaxial and biaxial minerals (10 marks)				
b- Twinkling and pleochroism (8 marks)				
c- Retardation and birefringnce(6 marks)				
e- Extinction and twinning in anisotropic minerals(10 marks)				

Best wishes

Examiner:

Prof. Gaafar A El Bahariya



TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY **EXAMINATION FOR GRADE TWO STUDENTS OF GEOPHYSICS** COURSECODE: Radioactivity and Geothermometry GP2109 COURSE TITLE: TIME ALLOWED: TOTAL ASSESSMENT MARKS: SEMESTER: FIRST 2 HOURS 3 JAN, 2018 100

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

Part I: Radioactivity

(60 Minutes, Total Marks 50)

1) Describe the difference between:

- (20marks)
- a) Geiger-Muller Counter and Scintillometer.
- b) Nuclear forces.
- 2) Write on the unites of radioactivity measurements. (10marks)
- (10marks) 3) How are radiometric data displayed?
- (10marks) 4) Illustrate the ground radiometric method for survey.

(60 Minutes, Total Marks 50) Part II: Geothermometry

- 1-Explain the following
- a) The differences in geothermal gradient between continental craton, (10 marks) continental rift and remnant subduction zone.
- b) Vertically from continental crust to the core some zones are liquid (10 marks) and others are solid.
- c) Tectonic setting affecting the depth of partial melting zone in the (10 marks) continental areas.
- 2- Discuss the thermal system of the lakes and oceans. (10 marks)
- (10 marks) 3- Define the followings: -
- a) Geothermal reservoir
- b) Heat and temperature
- c) Heat capacity

PROF. ZENHOM E. SALEM PROF. SHADIA T. ELKHODARY **EXAMINERS**



TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY

EXAMINATION FOR GRADE TWO STUDENTS OF GEOPHYSICS

COURSE TITLE:

Radioactivity and Geothermometry

COURSECODE: GP2109

DATE:

3 JAN, 2018

SEMESTER: FIRST

TOTAL ASSESSMENT MARKS: 100

TIME ALLOWED: 2 HOURS

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

Part I: Radioactivity

(60 Minutes, Total Marks 50)

1) Describe the difference between:

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- a) Geiger- Muller Counter and Scintillometer.
- b) Nuclear forces.
- 2) Write on the unites of radioactivity measurements.

(10marks)

3) How are radiometric data displayed?

(10marks)

4) Illustrate the ground radiometric method for survey.

(10marks)

Part II: Geothermometry

(60 Minutes, Total Marks 50)

- 1-Explain the following
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- 2- Discuss the thermal system of the lakes and oceans. (10 marks)
- 3- Define the followings: -

(10 marks)

- a) Geothermal reservoir
- b) Heat and temperature
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EXAMINERS

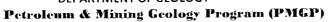
PROF. SHADIA T. ELKHODARY

PROF. ZENHOM E. SALEM

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د کلید العلوم - جامعة طنطا U QUALITY ASSURANCE UNIT A) FACULTY OF SCIENCE - TU

TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY





Progress Test (PMGE2107) For The Second Level of PMGP Students

COURSE TITLE Micropaleontology COURSE CODE: PAGE 210 F

DATE: 6/1/2018 SEMESTER: One 180 Marks TIME ALLOWED: 2 Hrs

Answer the following questions. Illustrate your answers with clear drawings and give examples:

exa	amples:				
1)	Explain the main morphol	ogical characters of Di	atom frustule w	vith exa	mples? (25 Marks)
2)	Explain the types of hinge	structure in Ostracoda	carapace?		(25 Marks)
3)	Position of Apertures in F	oraminifera (<u>Five_ON</u>	<u>LY</u>).		(25 Marks)
	Mixed arrangements in Fo				(25 Marks)
	Central structure of Calcar				(25 Marks)
,	Give Examples:	. • • • • • • • • • • • • • • • • • • •			(25 Marks)
<u>U)</u>	-	D D''	.•	C 1	•
	A-Lobulate periphery	B-Ribs ornam			olute coiling
	D-Triserial arrangemen	nt in Foraminifera	E-Biumbonate	e test in	Foraminifera
<u>7)</u>	Choose the correct answer	of the following question	ons:		(30 Marks)
1.	Microfossils are general	ly excellent indicators	of		
	a) Tectonics	b) Earthquake	c) paleoecolog	зу	d) Paleogeography
2.	The wall of calcareous a	lgae is			
	a) Siliceous	b) phosphatic	c) chitinous		d) organic
3.	The earliest raphid penn	ate diatoms appear			
	a) Cretaceous	b) Paleocene	c) Middle Eoc	ene	d) Middle Miocene
4.	The wall of ostracods ca	rapace is			
	a) Siliceous	b) calcareous	c) chitinous		d) organic
5.	Ostracods are one of the	most diverse groups	of		
	a) Arenaceous fauna	b) crus	staceans	c) cho	rdate fauna
6.	The valves of ostracoda	are closed by			
	a) Ligament	b) adductor muscles	c) spines		d) pore canal
7.	Freshwater ostracods ca	-			
	a) Heavily calcified,	b)weakly silicified	c)weakly calc	ified	d)moderately
	silicified				
8.	The earliest recorded wo	-			
	a) Raphide pennales	b) centric form	ns	c) Mo	noraphide pennales
9.	Merodont hinge is echar	•			
	a) No terminal teeth	b) terminal teeth in o	· ·	,	ninal teeth in both valves
10) The dominant morphol	=			1 1 1 7
	a) Raphe slite b) cen	tral area c) radi	ial striae	d) flat	rounded valve face

Examiners	Prof. Mahmoud Faris Mohamed	Prof.	Abdelfattah Ali Zalat	į
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			FACULTY OF SCIENCE		
Á.		<u>.</u>	DEPARTMENT OF GEOLOGY	·	
	EXAM	IINATION FOR SE	COND LEVEL STUDENTS OF SPE	ECIAL GEOLOGY	
	COURSE TITLE:	Final	Exam of Gemstones	COURSE CODE:GE2111	
DATE:	JAN. 2018	TERM: FIRST	TOTAL ASSESSMENT MARKS: 100	TIME ALLOWED: 2 HOURS	

Answer the following questions: (50 Marks)

- 1- Write short article on composition ,classification and geological record of amber.
- 2- Write short article on physical properties, origin and treatment of turquoise.
- 3- Physical properties and gern varieties of tourmaline.
- 4- Physical properties and origin of diamond.
- 5- Write briefly on the following: (40 Marks)
- a- Chemical classification of gemstones.
- b- Colour and varieties of topa'z.
- c- Jet organic stone.
- d- Major varieties of crystalline silica.
- e- Physical properties of lapis lazuli and enhancement of jade.
- 6- Complete the following sentences: (10 Marks)
 a-Gem varieties of beryl are...
 b-Gemstones are often treated with...
 c-Metamictization zircon is characterized by...
 d-Gemstones which are opaque are cut as...,whereas gems which are transparent are cut as...
 e- Varieties of the aluminium spinels nclude ...

Examiner: Prof. Ibrahim Salem

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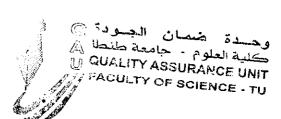
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TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY EXAMINATION FOR SOPHOMORES (SECOND YEAR) STUDENTS COURSE TITLE: PRINCIPLES OF STRATIGRAPHY COURSE CODE: GE2107 DATE: 16 JAN., 2018 TERM: FIRST TOTAL ASSESSMENT MARKS: 100 TIME ALLOWED: 2 HOURS

Answer the following questions.

I- Complete the following sentences: 1- Stratigraphy is	(20 marks)
II- Discuss in details with drawing the conformable boundaries.	(20 marks)
 III- Explain the following principles with drawing: a- Principle original horizontality. b- The law of superposition. c- Principle of Cross-Cutting Relationships. d- Walther's Law of Facies Succession. 	(30 marks)
IV- Write notes about the followings with drawing:a- Strata and stratification.b- Outcrop stratigraphic procedures.	(30 marks)

EXAMINERS	PROF. H.M. KHALIL	WITH BEST REGARDS
	DR. M.S. FATHY	



6.1	TANTA UNIVERSITY- Faculty of Science - Department of Physics		of Physics	
		EXAM F	DR LEVEL TWO STUDENTS OF BIO- AND GE	OPHYSICS
	COURSE TITLE	SETITLE Electromagnetism 1 course co	COURSE CODE: 2184	
DATE:	- 1 - 2018	TERM: FIRST	TOTAL ASSESSMENT MARKS: 100	TIME ALLOWED: 2 HOURS

First Question:

- 1) The three vertices of regular tetrahedron are located at O (0, 0, 0), A (0, 1, 0), B (0.5 $\sqrt{3}$, 0.5, 0), and C ($\frac{\sqrt{3}}{6}$, 0.5, $\sqrt{\frac{2}{3}}$). Find, [10marks]
- a) A unit vector perpendicular (outward) to face ABC;
- b) The area of face ABC.
- II) <u>Define</u>: Coulomb's law, potential difference, potential at a point, Faraday's law.

[15marks]

Second Question:

- I) Point charges of 50nC each are located at A (1, 0, 0), B (-1, 0, 0), C (0, 1, 0) and D (0, -1, 0) in free space. Find [15marks]
- a) The electric field at point P (0, 0, 1).
- b) The electric potential at point P (0, 0, 1).
- II) <u>Deduce</u> the electric field of near infinite charged conducting sheet having a uniform electric density ρ_s C/ m^2 . If a second infinite sheet charged conducting sheet, having a negative charge density $-\rho_s$ C/ m^2 , is located at distance x=a from the first, <u>find the total</u> field in the region inside and outside the two conducting sheets. [10marks]

Third Question:

- Using gauss's law, <u>find</u> the electric field (\vec{E}) of a point charge (Q), and then find the potential difference between two points A and B around the point charge. [10marks]
- II) State first Maxwell Equation.

[10marks]

III) <u>Find</u> the divergence of electric field density $(\vec{\nabla}, \vec{D})$ in the region about a point charge (Q) located at the origin.

Fourth Question:

- 1) Find the required electric work (W) to move electric charge (Q) between two points A and B in a uniform electric field (E). [10marks]
- II) <u>Prove</u> that the electric field vector equals exactly the gradient of electric potential $(E = -\nabla V)$.

[10marks]

EXAMINER

DR. REDA EL-SHATER

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