



المستوى الثالث جيولوجيا

EXAMINATION FOR THIRD LEVEL GEOLOGY (Special)

COURSE TITLE: Structural Geology II COURSE CODE: GE3214

DATE: 4/6/2017 TOTAL ASSESSMENT MARKS: 100 TIME ALLOWED: 2 HOURS

A)	Complete the following sentences:	(15 marks)
1-	Noncoaxial shearing parallel to the zone, combined with coaxial shortening perpendic	ular to the
	zone, a situation called	
2-	are relatively large, single crystals in a fine-grained matrix formed by	y metamorphic
	growth of crystals.	
3-	defined by microlithons with no microfolds an	d the domainal
	structure can be seen with the unaided eye	
4-	A is a relatively small strike slip fault that runs across the strike of a c	ontractional or
	extensional belt and accommodates differential displacement between two adjacent s	egments of the
	belt.	
5-	are thin zones of very high shear strain within the main shear zon	ie.
B)	Put $(\sqrt{\ })$ in front of the correct phrase and (X) in front of the wrong phrase (X)	vith error
lpon and and		(15 marks)
1-	Foliations are tabular to sheetlike, planar or curviplanar zones in which rocks are more	
	highly strained than rocks adjacent to the zone	
2-	Tectonites are ductilely deformed rocks formed by the accumulation of large shear str	
	ductile fault zones	
3-	Crenulation lineation is defined by the closely spaced fold hinges of the	
	microfolds in a crenulated rock	()
4-	Cleavage is a secondary fabric element, formed under low-temperature conditions, that	at imparts to
	the rock a tendency to split along planes	
5-	Contractional or restraining bends are local zones of extension where material is pulle	d apart by the
	dominant strike-slip fault movement.	
	Write short notes about the followings (with drawing if present):	(25 marks)
	Types of Joints associated with folds.	
	Classification of mantled porphyroclasts.	
	Characteristics of passive en échelon folds associated with strike-slip faults.	
	Choose the correct answer:	<u>(15 marks)</u>
1-	A common example of a semi-brittle shear zone is a zone of	
	(i) Mica fish (ii) Shear bands (iii) En echelon veins	
2-	form by plowing of surface irregularities due to friction.	
0	(i) Intersection lineation (ii) Groove lineations (iii) Fiber lineations.	1 1
3	formed by stretching, necking and eventually segmentation of a layer or plan	•
4	surrounded by a less competent matrix. (i) Boudinage (ii) Mullions (iii) S-C fabric	
4	display regular, repeated, fold-like forms, ranging in wavelength from centing	neters to
-	meters. (i) Shear bands (ii) Mullions (iii) Crenulation lineation	-11
5-	is subsidiary Riedel fractures develop at an acute angle, typically 10-20°	clockwise to a
	dextral main fault, anticlockwise to a sinistral strike-slip fault.	
ريتال	(i) R shears (ii) R' shears (iii) P shears	(20
	Compare between the following (with drawing if present):	(<u>30 marks</u>).
	Positive and negative flower structures.	
	Brittle and ductile shear zones.	
3-	Mineral lineation and intersection lineation.	

Prof. Mohamed Atef Noweir

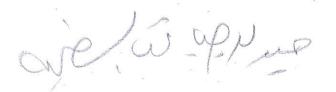
Prof. Mohamed Abd El-Wahed

EXAMINERS

TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY EXAMINATION FOR THIRD LEVEL GEOLOGY

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	1	J	EXAMINATION FOR THIRD LEVEL	GEOLOGY (Special)	
14	69	COURSE TITLE:	Structural Geology II	COURSE CODE: GE3214	
DA'	TE:	4/6/2017	TOTAL ASSESSMENT MARKS: 100	TIME ALLOWED: 2 HOURS	3
A)	Cor	nplete the follo	wing sentences:	(15 marks)	
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			ed		
2-			tively large, single crystals in a fine-gra	ned matrix formed by metamorph	nic
		wth of crystals.	, e, e		
3-			defined by microlithons	with no microfolds and the domair	nal
			with the unaided eye		
4-	Α.	is a rel	atively small strike slip fault that runs a	cross the strike of a contractional	or
			accommodates differential displacement b		
	belt		×.		
5-			are thin zones of very high shear strain wi	hin the main shear zone.	
B)	Put	() in front of	the correct phrase and (X) in front of	the wrong phrase with error	
		rection.		(15 marks)
1-	Marian Company of the		to sheetlike, planar or curviplanar zones i		_
	high	nly strained than i	cocks adjacent to the zone	()	
2-	Tec	tonites are ductile	ely deformed rocks formed by the accumul	ation of large shear strain, in	
	duc	tile fault zones		()	
3-			is defined by the closely spaced fold hing		
			ılated rock	The second secon	
4-		-	ary fabric element, formed under low-tem		
	the	rock a tendency t	o split along planes	()	
5-			raining bends are local zones of extension		
~			fault movement.		
			about the followings (with drawing if	present): (25 marks)	1
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			iled porphyroclasts. sive en échelon folds associated with strike	alin faulta	
		The state of the s		(15 marks)	ν.
		oose the correc	f a nswer: of a semi-brittle shear zone is a zone of		_
1 -	A CO	(i) Mica fish			
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2000				(iii) P shears	
			the following (with drawing if present	<u>(30 marks)</u>	<u>).</u>
		and the same of th	flower structures.		
		tle and ductile she			
3-	IVIIn	eral lineation and	intersection lineation.		

EXAMINERS | Prof. Mohamed Abd El-Wahed | Prof. Mohamed Atef Noweir





			TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY	4
		EXAMINATIO	N FOR JUNIORS STUDENTS OF GEO	LOGY
1989	COURSE TITLE:	SUB	SURFACE GEOLOGY	COURSE CODE: GE3204
ATE:	JUN., 2017	SEMESTER: SECOND	TOTAL ASSESSMENT MARKS: 100	TIME ALLOWED: 2 HOURS

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

(1) What is a log and why the logs are important for petroleum engineers?	(10 Marks)
 (2) Write on the followings: a- Criteria for subsurface normal faults. b- Conventional resistivity logs. c- Nile Delta basin. 	(30 Marks)
(3) What are the reasons behind the following features:a- Facies change of certain stratigraphic sequence.b- Variation of sand / shale ratio in lithofacies map.	(18 Marks)
 (4) Discuss the following subjects: a- Prospecting and exploration of economic deposits. b- Methods for lithologic correlation. c- Ratio maps. 	(30 Marks)
(5) Complete the following statements:	(12 Marks)
a- Structure contour maps are considered asmap, they show	d used to
d-Variation of thickness of certain stratigraphic unit may be due to	

795 , 100

TIME: Y HOURS

TANTA UNIVERSITY
FACULTY OF SCINCE
DEPARTMENT OF GEOLOGY

THEORETICAL EXAMINATION IN GEOPHYSICS FOR TRO - LEVEL STUDENTS, SPECIAL GEOPHYSICS
COURSE TITLE: "INTERPRETATION OF GRAVITY DATA". COURSE CODE:

TERM: SECOND

17/7/

T . 1 Y

DATE:

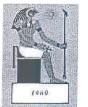
ANSWER THE FOLLOWING QUESTIONS:	MARKS
1- Write about TWO methods used for gravity anomaly separation.	(° ·).
Y- What are you know about the LAND gravity survey.	(° ·).
T- Answer ONLY ONE from the followings:	(° ·).

TOTAL ASSESSMENT MARKS: 10.

- A- BY using second and third vertical derivatives SHOW by drawing the role of them In detecting the subsurface boundaries.
- B- The quantitative interpretation of residual gravity map by direct and indirect methods and modeling technique.
- C PRAT and AIRY theories explaining the ISOSTASSY of Earth's Crust.

EXAMINERS: PROF. DR. / Mohamed Mohamed El-Awady
PROF. DR. / Mohamed Refaat Soliman





EXAMINATION FOR Third Level students

in

SPECIAL GEOLOGY

	COURSE TITLE:		Geology of Ores	COURSE CODE: GE3212
DATE: 18 /6/ 2017	JUNE, 2017	TERM: SECOND	TOTAL ASSESSMENT MARKS: 50	TIME ALLOWED: 2 HOURS

Answer the following questions (Illustrate your answers with clear drawing and examples whenever possible).

1) Write brief on only three of the following:

(10 marks)

- a) Late magmatic ore deposits
- b) Different categories of uranium deposits, with special references to sandstone uranium deposits
- c) Characteristics of Iron Deposits
- d) What are the main Sources of water in Hydrothermal system.

2) Draw an idealized cross section of:

(10 marks)

- a) Morphology and zoning of supergene enrichment. With special reference to chemical changes involved supergene enrichment.....
- b) Hydrothermal alteration zones, minerals, and ores in a Porphyry Copper Deposit?

3) Define:

(10 marks)

- a) Disseminated minerals b) Segregated minerals c) Manganese nodules

- d) Bauxite Deposits
- e) Laterite Deposits
- f) Placer mineral deposits

g) Gossan

- h)) Paleo -placer
- i) Carbonatites

Platinum Group Elements (PGE

4) Different types of:

(10 marks)

- a) Placer Deposits
- b) Metamorphic deposits
- c) Wall Rock Alteration
- d) Hydrothermal Veins.

5) What is

(10 marks)

- a) Lenticular Ore deposit?
- b) Pipe Ore deposit
- c) Stock-work mineralizations
- d) Veins and Stringers mineralizations

Examiners:

Prof. Hassan Z. Harraz

An.	TANTA UNIVER	SITY	FAC	ULTY OF SCIENCE D	EPARTMENT OF GEOLOGY
	EXAM	INATION	FOR THIE	RD LEVEL STUDENTS OF CHEM	IISTRY- GEOLOGY
	COURSE TITLE:		Final Ex	am of Geology of Ores	COURSE CODE: GE3212
DATE:	JUNE. 2017	TERM:	SECOND	TOTAL ASSESSMENT MARKS: 50	TIME ALLOWED: 2 HOURS

Part One: Write on the following, Illustrate your answer with drawing. (25 marks)

- 1-Types of wall rock alteration. 2- Late magmatic deposits.
- 3- Relation of contact metasomatism to intrusions and invaded rocks.
- 4- Cavity filling deposits.
- 5- General characteristics of simple and complex pegmatites, mineral paragenesis and criteria of replacement.

Part Two: Answer The Following Questions.

1-What are the differences between the following:

(24Marks)

- a. Sedimentation and deposition.
- b. Gypsite and gibbsite.

c- Soda ash and salt cake.

- d. Epigene and epigenetic
- e. Iron and manganese as a product of sedimentation.

2-Write on the following:

(16 Marks)

- a. Cycle of Phosphate.
- b. Calcium sulphate deposition.
- c. Requirements of residual concentration process.
- D. Commercial bauxite.

3-Answer the following with drawing only:

(10 Marks)

- a. Different shapes of bauxite deposits. b. Fence diagram.
- c. Residual manganese deposits.
- d. Oxidation and supergene enrichment.

Examiners:

Prof. Ibrahim Salem

Prof. Bothaina El-Desoky



EXAMINATION FOR Third Level students

in

SPECIAL GEOLOGY

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- i) Carbonatites

Platinum Group Elements (PGE

4) Different types of:

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- a) Placer Deposits
- b) Metamorphic deposits
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5) What is

(10 marks)

- a) Lenticular Ore deposit?
- b) Pipe Ore deposit
- c) Stock-work mineralizations
- d) Veins and Stringers mineralizations

Examiners:

Prof. Hassan Z. Harraz

EXAMINATION FOR THIRD LEVEL GEOLOGY (Special)

COURSE CODE: GE3214 Structural Geology II COURSE TITLE: **TIME ALLOWED: 2 HOURS** TOTAL ASSESSMENT MARKS: 100 4/6/2017 DATE: (15 marks) A) Complete the following sentences: 1- Noncoaxial shearing parallel to the zone, combined with coaxial shortening perpendicular to the zone, a situation called 2- are relatively large, single crystals in a fine-grained matrix formed by metamorphic growth of crystals. 3- defined by microlithons with no microfolds and the domainal structure can be seen with the unaided eye 4- A is a relatively small strike slip fault that runs across the strike of a contractional or extensional belt and accommodates differential displacement between two adjacent segments of the belt. 5-are thin zones of very high shear strain within the main shear zone. B) Put $(\sqrt{})$ in front of the correct phrase and (X) in front of the wrong phrase with error (15 marks) correction. 1- Foliations are tabular to sheetlike, planar or curviplanar zones in which rocks are more highly strained than rocks adjacent to the zone.....) 2- Tectonites are ductilely deformed rocks formed by the accumulation of large shear strain, in ductile fault zones..... 3- Crenulation lineation is defined by the closely spaced fold hinges of the microfolds in a crenulated rock..... 4- Cleavage is a secondary fabric element, formed under low-temperature conditions, that imparts to the rock a tendency to split along planes.....(5- Contractional or restraining bends are local zones of extension where material is pulled apart by the dominant strike-slip fault movement. C) Write short notes about the followings (with drawing if present): (25 marks) 1- Types of Joints associated with folds. 2- Classification of mantled porphyroclasts. 3- Characteristics of passive en échelon folds associated with strike-slip faults. (15 marks) D) Choose the correct answer: 1- A common example of a semi-brittle shear zone is a zone of..... (iii) En echelon veins (ii) Shear bands (i) Mica fish 2- form by plowing of surface irregularities due to friction. (iii) Fiber lineations. (i) Intersection lineation (ii) Groove lineations 3-.... formed by stretching, necking and eventually segmentation of a layer or planar body surrounded by a less competent matrix. (i) Boudinage (ii) Mullions (iii) S-C fabrics 4-display regular, repeated, fold-like forms, ranging in wavelength from centimeters to (ii) Mullions (iii) Crenulation lineation (i) Shear bands meters. 5-is subsidiary Riedel fractures develop at an acute angle, typically 10-20° clockwise to a dextral main fault, anticlockwise to a sinistral strike-slip fault. (iii) P shears (ii) R' shears (i) R shears E) Compare between the following (with drawing if present): (30 marks). 1- Positive and negative flower structures. 2- Brittle and ductile shear zones. 3- Mineral lineation and intersection lineation.

EXAMINERS	Prof. Mohamed Abd El-Wahed	Prof. Mohamed Atef Noweir

EXAMINATION FOR THIRD LEVEL GEOLOGY (Special)

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Prof. Mohamed Abd El-Wahed

EXAMINERS

Prof. Mohamed Atef Noweir

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TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY

EXAMINATION FOR SOPHOMORES (THIRD YEAR) STUDENTS OF SPECIAL GEOLOGY

DATE: 11 JUNE, 2017 TERM: SECOND TOTAL ASSESSMENT MARKS: 100 TIME ALLOWED: 2 HOURS

Answer the following questions. Illustrate your answers with diagrams wherever is possible.

1-	Wr	ite short notes and explain the following:(35 marks)
	a-	Causes of plate movement
	b-	Evidences of sea floor spreading
	C-	Types of volcanoes
	d-	Hot spots and ocean ridges
	e-	Craton and shields
2-	Co	mplete the following(15 marks)
	a-	Five ways in which mountains are formedand
	b-	The primary causes of mountain building,
	C-	Evidences of continental drift theory are,
3-	Dis	criminate between(50 marks)
	a-	Igneous petrotectonic assemblages at convergent plate boundaries and divergent plate
		boundaries
	b-	Birth and death of ocean in Wilson tectonic cycle
	C-	Lithospheric plates and crust
	d-	Subduction mountain ranges and collisional mountain ranges
	e-	Ophiolites and island arcs

Best wishes

Examiners	Prof. Dr. Gaafar El Bahariya	Dr. Ismail Thabet
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EXAMINATION FOR

JUNIORS (THIERD YEAR) STUDENTS OF (CHEMISTRY/GEOLOGY SECTION)

Tectonic Geology COURSE GE 3202 COURSE TITLE:

DATE: JUNE 11, 2017 TERM: SECOND TOTAL ASSESSMENT MARKS: 100 TIME ALLOWED: 2 HOURS

Answer the following questions:

- 1- Draw a diagrammatic cross-section through the Earth showing the different layers and mention the characteristic features of each layer? (20 marks)
- 2- Write with drawing on the following:

(40 marks)

- a- Afar Triangle
- b- East-African rift valleys
- c- San Andreas Transform Fault
- d- Ophiolites
- 3- One of the most important aspects of plate tectonic theory is the nature of the relative motions between the plates. Discuss with drawing the types of convergent plate boundaries? Give examples? (20 marks)
- 4- Explain with drawing the concept of sea-floor spreading and how it relates to the mid-oceanic ridge and oceanic trenches? (20 marks)

Good Luck!

Examiners	Prof. Mohamed Atef Noweir	Prof. Gaafar El-Baharia
	Prof. Mohamed Abdelwahed	Dr Ismail Abdelrasoul

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TANTA UNIVERSITY FACULTY OF SCIENCE GEOLOGY DEPARTMENT

EXAMINATION FOR SENIORS (3RD YEAR) STUDENTS-GEOLOGY

COURSE TITLE:

ENVIRONMENTAL GEOLOGY

CODE:**GE3224**TIME ALLOWED:

DATE:

15 JUNE, 2017

TERM:2ND

ASSESSMENT MARKS: 100

2 HOURS

ANSWER THE QUESTIONS SUPPORTED WITH DRAWINGS WHEREVER POSSIBLE (20 MARKS EACH):

1. Discuss the factors affecting the biodiversity.

2. Discuss the global climate change and the human responses to natural hazards.

3. Write on water pollutants and common sources of groundwater

pollution and contamination.

4. Write on the fossil fuels and acid rains relationship, the acid rain environmental risks, and the proposed solution to solve the problem.

5. Write on renewable energy resources.

WARMEST WISHES WITH GREAT SUCCESS

A.	TANTA UNIVERSITY		FACULTY OF SCIENCE DE		EPARTMENT OF GEOLOGY	
	EXAMINATION FOR THIRD LEVEL STUDENTS OF (EOPHYSICS	
	COURSE TITLE: Final Exam of Geology of C		am of Geology of Ores	COURSE CODE: GE3212		
DATE:	JUNE. 2017	TERM:	SECOND	TOTAL ASSESSMENT MARKS: 50	TIME ALLOWED: 2 HOURS	

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2- Late magmatic deposits.

- 3- Relation of contact metasomatism to intrusions and invaded rocks.
- 4- Cavity filling deposits.
- 5- General characteristics of simple and complex pegmatites, mineral paragenesis and criteria of replacement.

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(24Marks)

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(16 Marks)

- a. Cycle of Phosphate.
- b. Calcium sulphate deposition.
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- D. Commercial bauxite.

3-Answer the following with drawing only:

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- a. Different shapes of bauxite deposits. b. Fence diagram.
- c. Residual manganese deposits.
- d. Oxidation and supergene enrichment.

Examiners:

Prof. Ibrahim Salem

Prof. Bothaina El-Desoky



EXAMINATION FOR Third Level students

in

SPECIAL GEOLOGY

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- Different categories of uranium deposits, with special references to sandstone uranium deposits
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(10 marks)

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- i) Carbonatites

Platinum Group Elements (PGE

4) Different types of:

(10 marks)

- a) Placer Deposits
- b) Metamorphic deposits
- c) Wall Rock Alteration
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5) What is

(10 marks)

- a) Lenticular Ore deposit?
- b) Pipe Ore deposit
- c) Stock-work mineralizations
- d) Veins and Stringers mineralizations

Examiners:

Prof. Hassan Z. Harraz

IV. Choose the correct answer and rewrite it in your answer sheet.

(30 Marks- 2 mark each)

- 1) An epidemic is
 - a. The occasional appearance of parasite in one or few members of a community.
 - b. The presence of a parasitic infection at a steady rate all year round in a particular community.
 - c. The sharp increase in the rate of a given parasite in a particular season.

2) Monocytosis results from

- a. Stimulation of the reticulo-endothelial system.
- b. Early invasion by eosinophils.
- c. Results only from blood sucking parasites
- 3) Abundance of infection:
 - a. The number of parasites within infected hosts.
 - b. The number of parasites within examined hosts.
 - c. The number of individuals within a given area of host tissue.

4) Mechanisms by which a parasite may escape the host response include:

- a. Antigenic variation, encapsulation and local immune response.
- b. Antigenic mimicry, intracellular existence, and physiological adaptation.
- c. Extracellular existence, antigenic mimicry and antigenic variation.

5) Cyclophyllidean tapeworm eggs are characterized morphologically by presence of:

- a. Coracidium.
- b. Miracidium.
- c. Cercaria.
- d. Sporocyst.

6) Incidental parasites

- a. Occasionally appear in unusual hosts.
- b. Occasionally appear in unusual places within the host.
- c. Are free livings that can live as parasites when accidentally introduced into the body of an animal.

7) The infection of Dipyllidium caninum occurs by :

- a. Ingestion of plants contaminated by encysted metacercaria
- b. Ingestion of flea infected with cysticercoid
- c. Ingestion of raw meat infected with bladder cysticercus

8) The intermediate hosts of Clonorchis sinensis include

- a. Copepods and fish
- b. Snails and fish
- c. Bird and cats

9) The first larval stage in digenetic trematode life cycle is

- a. Cercaria
- b. Ciliated miracidium
- c. Unciliated miracidium

10) Being monoecious refers to which of the following?

- a. Having the ability to regenerate a lost limb.
- b. Having both male and female reproductive organs in a single organism.
- c. Living out entire life cycle within the same host.

11) How does a schistosome normally enter the body?

- a. Through the urethra
- b. Through drinking water
- c. Through the skin

12) The testis where spermatogenesis in nematodes takes place throughout its whole length.

- a. Telogenic.
- b. Hologenic.
- c. Polygenic.

13) The phase when larvae of Ancylostoma sp penetrate the skin causing itching and swelling of the skin "

- a. The cutaneous phase.
- b. The pulmonary phase.
- c. The intestinal phase.

14) The term (VLM) of humans is:

a. Loss of visual acuity.

EXAMINERS	PROF. NAHLA A. RADWAN				
	DR.	SAMAR F. HARRAS	DR. LAMIA	E. BAKR	

Best wishes

Question 4: Choose the correct answer

TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY

201	I	EXAMINATION FOR JUNIOR SPECIAL GEOLOGY STUDENTS					
196	6 9	COURSE TITLE:		Geophysics (2)	COURSE CODE: GE3226		
DATE.	:	13 JUNE 2017	TERM: SECOND	TOTAL ASSESSMENT MARKS:100	TIME ALLOWED:2 HOURS		

DATI	10 001 12 201	TERM: SECOND	TOTAL ASSESSMENT MARKS:1		ALLOWED:		
	swer the following que rt I:	stions (Sketch ma	aps and diagrams should be (60 Minutes)				le).
An	swer of the following	ng questions:-					
1) I	llustrate the airborn	e gamma-ray sp	ectrometric survey.	(10mark	ks)		
2)	Describe the differer	nce between:		(20marl	ks)		
	a) Scintillomete	er and spectrome	eters.				
	b) Constituents of	of the nucleus.					
3)	Write short notes on	the radioactive	minerals?	(10mark	(s)		
4)	What are the Source	s of Radioactivi	ty?	(10mark	KS)		
Pa	rt II:		(60 Minutes	, Total Ma	ırks 50)		
An	swer of the following	ng questions:-					
~	n 1: Discuss:-	5006			(10 da	~~~	1
	1-Wave Terminolog		aka and valoaity ratios		(10 deg		
	100000000000000000000000000000000000000		cks and velocity ratios (Illustrate your answer).		(10 deg	(ree)	
	a) Seismic waves.	o jaman nigar (2	Je mana		(10 deg	ree)	
E						ree)	
Questio	n 3: Put (\checkmark) in f.	ront of the w	rite sentence and (X)	in front	of the	wro	ng
sentence	e and correct the wr	ong one.		(7 degree	2)	
a)			erred to as the modulus o	f rigidity, i	s the		
	ratio of shear stre					()
<i>b</i>)			between two adjacent po	ints on the	wave	1	1
2)	that has the same	*	_	t annoniato	danith)
C)	The state of the s	151	ne maximum displacemen The wave passes through			()
d)	*		sed for seismic recording		iai.	()
	on land are of the			1		()
e)	The sensitivity of	an electromagn	etic geophone depends o	n the stren	gth of		
	the magnet					()
f)			ensively for petroleum ex			()
g)			or two successive wave c r the motion to complete	7	ss a	()

باقي الأسئلة بالخلف

(3 degree)

1-In a primary wave, the par	rticle motion in the medium move to the
lirection of the wave.	
a) Parallel	c) In the same direction
b) Transverse	d) Perpendicular
2 A surface wave is often apaths at the surj	a combination of the two. Particles typically move in
a) Longitudinal	c) Surface
b) Circular or elliptical	d) Love
3-Velocity increases general	lly with
a) Frequency	c) Consolidation
b) Period	d) Air

WITH BEST WISHES

EXAMINERS PROF. SHADIA T ELKHODARY DR. KHALED ABD ELLAH OMAR