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المستوى الرابع/ جيولوجيا المادة: جيولوجيا إقتصادية ج ٢١٢ الزمن: ساعتان



قسم الجيولوجيا امتحان الترم الأول التاريخ ٤ //١/١٢م الدرجة الكلية ٢٠ درجة

اكتب بالتفصيل عن عشر فقرات مما يلي (كل فقرة ست درجات)

- ١ تقسيم العناصر والفلزات.
- ٢ وسائل وعمليات تركيز المعادن.
- ٣- تصنيف الرواسب المعدنية وخاماتها.
- ٤ رواسب الحشو للمحاليل المائية الساخنة.
- ٥ رواسب الاستبدال الميتازوماتي للمحاليل المانية الحارة.
 - ٦- النواتج الرئيسية لعمليات التجوية للصخور السطحية.
 - ٧- رواسب البوكسايت واللاتيريت.
 - ٨ رواسب الكربونات.
 - ٩ رواسب المتبخرات.
 - ١٠- رواسب الفحم.
 - ١١ الرواسب المعدنية لحقب الميزوزوى في مصر.

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١٢ - الرواسب المعدنية للزمن الثالث في مصر.

آ.د. محمود الشربيني د. ده - استرا ، در الفياري در الفياري در الفياري المراجع المراجع المراجع المراجع المراجع ا

Mansoura University Faculty of Science Geology Department Date: 21/01/2012



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Fourth Level (Geology & Geophysics)

Course No.G407

Course: Quaternary Geology& Delta
Time: 2 hours Full Mark: 60

Answer the Following Questions

Question One: Tick (V) or (X) and correct

- 1- Volcanic eruption causes drop in atmospheric temperature due to P2O5 condensation.
- 2 Continental glaciers cover more than 50,000 km2.
- 3- The glacier starts to move when the snow line is at higher altitude.
- 4- All morains are made up of till deposits.
- 5- Glacial varve is formed of fine and coarse sediments interplay.
- 6- Rock glacier is typical glacial landform.
- 7- The interglacial stage is characterized by mixed oak forest.
- 8- Because of glacial isostacy, earth surface in the proglacial area is rebound after ice thaw.
- 10- F luvial lakes are quaternary evidences in the mid latitude areas.
- 11- Rock types of the drainage basin determine the nature of deltaic sediments .
- 12- Modern-day deltas, all belong to the same geologic settings.
- 13- Both fluvial and deltaic sediments posses a fining upward sequence.
- 14- In the river dominated deltas, the interdistributary areas are filled with marshes.
- 15- The distributary mouth bar of a delta is middleground when outflow velocity is high.
- 16- The abandoned portion of delta plain is subjected to marine processes
- 17- The delta progradation is controlled by the gradient of continental shelf.
- 18- Low discharge of river result in accumulation of shell fragments in the lower delta plain.
- 19- The delta plain is characterized by large and continuous sand body.
- 20- The total discharge of Nile is similar to that of Mississipi.

(20 marks)

Question Two: Complete

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(20 marks)

اقلب الصفحة

Question Three: Choose the correct answer

1- Chronostratigraphically Quater		
a-period	b-epoch	c-stage
2- The axial obliquity occurs in the	•	
a- 100Ka	b- 41Ka	c- 22Ka
3- The streamland snake-like ridg		
a-eskar	b- kam	c- drumline
4- The annual varve sediments are		
a- marine water	b- fresh water	c- super saline water
5- The permafrost is topped by		
a- frozen layer	b- active layer	c-saturated layer
6-The pollen grains characteristic		
a- Pinus	b- Betula	c- Ulmus
7- Sea level rise due ice melt wate	ris	
a- hydrostasy	b- eustasy	c- isostasy
8 -The shrinkage of pluvial lake in	dicate that the climate was	
a-warm-wet	b-cold-dry	c-warm-dry
9- The Quaternary stratigraphy of		
a-till-soil	b- terrace-soil	c- pollen association
10-The peat deposits are widespre	ead during Holocene in the	
a- Boreal chronozone	b- Sub Atlantic chronozone	
11- When outflow velocity is high	and receiving basin slope is I	ow, the produced bar is
a- lunate	b- radial	c-linear
12-In the wave dominated delta th	e interdistributary bay is filled	I with
a- dune sand	b- evaporites	c-marshes
13- When water discharge is errati		al valley is
a- shoestring	b- sheet	c-lens
14- The cross-bedding of the river	dominating distributary chan	el bar is dipping
a- bidirectinally	b- downstream	c- upstream
15-When the river discharge is too	high , it will	
a-reduce shelf slope	b- reduce buoyancy	c- reduce friction
16- In the tide dominated delta, the	e coastline usually occupied b	ру
a- coastal barrier	b- lagoons	c- estuaries
17- The deltaic sand body shows I	ateral continuity when subsic	lence of receiving basin is
a- high	b-low	c- moderate
18- When the discharge is high re	lative to the tide, the delta coa	ist is
a- elongate	b-lobate -	c-cuspate
19- The near shore wave attenuati	on rate depends on	
a-shelf slope	b- wind regime	c- deep wave power
20- The modern Nile delta is now i		
a- stable phase	b-constructive phase	c- destructive phase
a state primos	2	
		(20 marks)
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Good Luck

Prof. Omar Hegab

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Mansoura University Faculty of Science Geology Department Date: 17/1/2012



Fourth Year Exam (January 2012)

Subject: Geology

Course: Basin Analysis (G 404)
Time: 2 hour Full Mark 80

Answer the following questions

The first question: complete the following	(30 marks)
1-Sequence stratigraphy is an important tool in	
2-Sedimentary basin analysis is officially defined as of .	
origin.	
3-Erecting high land in an adjacent area by volcanism can creates a	
4-A sedimentation itself affects and tectonic affects	
5-Backstripping is known as computational techniques has been recently the deposition in sedimentary basin.	developed to
6-You can reconstruct the configuration of the basin through time by and	informing with
7-From cross-stratified deposits, seeing	y far the most
8-Intermontane basins of small and deep characters are created by can produce small pull-apart basins.	, but
9-The important effects of tectonic on sedimentation include and	
10 is needed to make sedimentary basins, but the reco	
11 is a basin in which thick sedimentary and volcanic rocks accurate	ımulated.
The second question: write briefly on	(20 marks)
1-Master cross sections and stratigraphic cross sections through the sedimenta	ary basins.
2-Sole marks.	
3-Flexural regional basins and thermally regional basins.	

The third question: changes these sentences to correct forms (15 marks)

- 1-Isopach maps are Lithofacies maps.
- 2-Any sedimentary basin is a place on the earth with closed contour.
- 3-The most important control on sedimentation is climate.
- 4-Paleocurrent directions can'not help establish paleoslope and source of sediment supply to the basin.
- 5-Forland basins are formed ahead of large thurst sheets that move out from orgogenic areas onto previously undeformed cratonal lithosphere.
- 6-Areas above the equilibrium profile tend to be eroded but that below the equilibrium profile tend to have deposition.
- 7-Eustacy depends on the volume of ocean basins, continental distributions, average age of oceanic crust and the amount of sediment deposition in ocean basins.

The fourth question: put short expressions for the following (15 marks)

- 1-The basins have no apparent connection with plate tectonics and they are thought to reflect very slow thermal subsidence (for times of the order of a hundred million years).
- 2-It is a brief interruption in sedimentation, with little or no erosion before sedimentation resumes.
- 3- It is of long, narrow, linear; tens of kilometers wide, up to a few thousand kilometers long and shows coarse to fine siliciclastics, usually nonmarine; often lacustrine sediments; interbedded basalts.
- 4-They are consist of coarse siliciclastics alluvial fans, molasse facies and thick nonmarine conglomerates thinning and fining away from the arc, often passing into shallow-marine sandstone-shale successions if sea level is high enough to flood the basin.
- 5-It is the area available for sediment to be deposited, usually the space between the sedimentary surface and sea level and to a first order approximation, it depends on global sea level, subsidence, and sediment supply.

With best wishes Prof. Adel Genedi

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MANSOURA UNIVERSITY Faculty of Science Geology Department Mansoura-EGYPT

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Date: December 31, Saturday 2011 First semester - Academic Year 2011/2012 Full Mark: 60

.Time allowed: 2 hrs. (12.00-02.00 PM)

B. SC. EXAM IN GEOMORPHOLOGY AND HYDROGEOLOGY OF EGYPT (G402) - THE FOURTH PROGRAM (GEOLOGY)

QUESTION ONE: Fill-in the spaces (27 Mark)

1.	in the central Sinai, extends E-W, plays a major role in the water flow.
2.	and aquifers are exposed on the surface in many localities in
	Sinai especially in on the floor of Wadi El Arish.
3.	The foot slope of El-Tih plateau is composed of thick, while El-Igma is
	covered with
4.	Gulf of Aqaba coastal plain develops three alluvial fans;
	and fans.
5.	The Quaternary aquifer in the east Nile Delta has lower salinity values in the north and
	west directions attributed to and of the Nile Delta, whereas
	the maximum values were located in the south along due to
	the and
6.	The use of relatively high salinity water (>3000ppm) for livestock and poultry
	purposes may cause or Also, it often
	causes, and
7.	The 10th of Ramadan City rests on the, which represents the most
	important groundwater aquifer in the Nile Delta.
8.	Cairo-Gebel Shabrawit structural ridges represented by five subparallel structural
	ridges, alternating with two negative structural depressions exist,
	and depressions.
9.	, the largest lake of Egyptian coastal belt, extends NW-SE, has wide spread
	sabkhas and salty ponds around the lake.
10.	The Pliocene aquifer in the west Nile Delta is of moderately potential, restricted
	to area.
11.	The Maryut tableland includes two ridges and two depressions;
	ridge, ridge, depression, depression.
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Date: December 31, Saturday 2011 First semester - Academic Year 2011/2012

Full Mark: 60

Time allowed: 2 hrs. (12.00-02.00 PM)

QUESTION TWO: Write short notes on each of the following (answer six points only; 18 Mark)

- 1. The west Nile Delta southern tableland.
- 2. Wadi El Tumilat depression.
- 3. The status of Quaternary aquifer throughout the east Nile Delta.
- 4. The health effect of lead.
- 5. Sinai Peninsula highly mountainous basement complex unit.
- 6. Syrian Arc System.
- 7. The west Nile Delta Pleistocene aquifer.
- 8. Sinai drainage basins unit.
- 9. Kurkar aquifer.

QUESTION THREE: Mark true or false (make further illustration if applicable) for the following statements (answer five points only; 15 Mark)

- 1. The Pre-Cenomanian Nubian sandstone aquifer is exposed on the cliff of El-Igma Plateau.
- 2. Salinity varied around Ragabet El-Naam fault due to the different dilution regime.
- 3. Gulf of Suez coastal plain has bajada plains at El Qaa plain, Delta of Feiran and Delta of Sudr.
- 4. The beach of the Gulf of Suez is wider than that of the Gulf of Aqaba because the Suez Gulf is shallower than Gulf of Aqaba.
- 5. El Khanka sand dunes extend in a NE-SW direction in a series of elongate sand ridges.
- 6. The Miocene Mit Ghamr aquifer in the west Nile Delta is a very highly potential.

Good luck

Dr. Waleed Shukry El Diasty