

المستوى الاول

جيولوجيا البترول والتعدين



Final Exam For The First Level of PMGP Students

DATE: 4/6/2017	COURSE TITLE: Geomicrobiology	SEMESTER: TWO	Total Assessment: 180 marks	COURSE CODE: BOTN1202	TIME ALLOWED: 2 hrs
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Part I Bactriology

Q1-Complete the following:

(20 marks) (4 marks each)

- The chemical structure of the capsule is mainly
- Flagellin is, while pillin is.....
- Plasmid is
- Conjugation is not a mean of reproduction but
- Bioremediation is

Q2-Give an account on only two:

(40 marks) (20 marks each)

- General Characters of Prokaryotes, and types of flagella.
- Microbial enhanced oil recovery.
- The role of bacteria such as Acidithiobacillus ferrooxidans
- mineral salts.
- the biomining of iron, copper, gold and uranium from.

Part II Mycology

Q1- Write on the following (choose 2 points only):

(40 marks)(20 marks each)

- Describe the general character of Fungi
- Explain the role of microorganisms in aerobic alkane metabolism
- Demonstrate the arrangement of vesicle in different fungi

Q2- Complete the following:

(20 marks)(4 marks each)

- hydrosphere layer includes
- Fungal growth divided into.....
- zygopores found in subdivision.....
- keratinophilic fungi had high uptake ofand low uptake of.....
- Dependent approaches methods is

Part III Phycology

Q1- Write on the following (choose 2 points only):

(40 marks)(20 marks each)

- Characterizing microbes
- Silification
- Compare between Heterococcoliths and Holococcoliths
- Different types of algal fossils
- External calcification

Choose one question only from the following

Q2-Complete the following:

(20 marks)(4 marks each)

- Pfiesteria* algae composed of two halves called.....and.....
- Diatomite is characterized by adensity and porous sedimentary rock.
- Diatom cell wall called, that has manydeposition.
- Chara has two types of branches called.....and.....
- Organisms can be classified according to their nucleus into.....and.....



Q3- Mark true (✓) and false (X) on the following

(20 marks)(4 marks each)

- Filamentous algae composed of one large, multinucleate cell without cross walls ()
- Coccolithogenesis seems highly coupled with photosynthesis ()
- Non heterocystous cyanobacteria cannot perform Nitrogen fixation ()
- Pennate forms of diatoms were dominant from Paleocene to recent ()
- Chara is one of the silicified algae ()

Good Luck!!

Examiner(s) : Prof. Dr. wageh El-shouny, Prof. Eman Abd El-Zaher and Dr. Mostafa Elshobary

	DEPARTMENT OF GEOLOGY FACULTY OF SCIENCE TANTA UNIVERSITY				
	FINAL EXAMINATION FOR FIRST LEVEL PMGP STUDENTS				
	COURSE TITLE	FUNDAMENTALS OF GEPHYSICS			COURSE CODE: PMGE 1204
DATE:	JUNE 2017	SEMESTER: TWO	TOTAL ASSESSMENT MARKS: 180	TIME ALLOWED: 2 hrs	

Answer the following questions:

- 1) Write about the Bouguer gravity data correction. (20 marks)
- 2) What do you know about the diurnal magnetic correction? (20 marks)
- 3) Write about **ONE ONLY** of the following: (20 marks)
 - a) Airy's theory of Isostasy of Earth's crust.
 - b) Elements of Geomagnetic Field.
4. Explain the following: (20 marks)
 - a) Natural and artificial seismology.
 - b) Bulk Modulus (K).
5. Discuss the following: (30 marks)
 - a) Types and characteristics of seismic waves.
 - b) Importance of well logging.
 - c) Applications of electrical methods.
6. Read each of the following statements and mark either (✓) if correct or (X) if wrong: (10 marks)
 - a) Surface seismic waves decrease as we go deeper into the Earth. ()
 - b) A rigid rock body movement is characterized by a displacement with no change in shape or volume and is represented only by translation and/ or rotation. ()
 - c) The **Epicenter** of an earthquake is the underground point of origin while **Focus** is directly above it on the Earth's surface. ()
 - d) Land seismic surveys use **air guns** while marine surveys use **vibrators**. ()
 - e) **Seismogram** is the instrument that measures motions of the ground while the **Seismograph** is a graph output by a seismogram. ()

EXAMINERS	PROF. NADER H. EL-GENDY	PROF. ABDELAZIZ L. ABDELDAYEM
	PROF. MOHAMED R. SOLIMAN	

P.T.O.

7. Write on the followings:

(30 marks)



- a) Classification of petroleum traps.
- b) Factors affecting rock resistivity.
- c) Use of geoelectric method to locate caving in carbonate rocks.

8. Discuss the following subjects:

(30 marks)

- d) Schlumberger method for measuring resistivity.
- e) Drilling fluid function.
- f) Uses of resistivity logs.

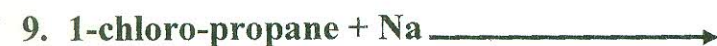
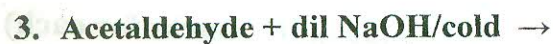
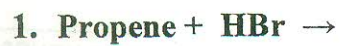
Good Luck!

	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF CHEMISTRY				
	FINAL EXAM FOR FIRST YEAR PETROLEUM & MINING GEOLOGY PROGRAM (PMGP)				
	COURSE TITLE:	ORGANIC AND POLYMER CHEMISTRY			
DATE:	MAY 25 TH , 2017	TERM: SECOND	TOTAL ASSESSMENT MARKS: 180	TIME ALLOWED: 2 HOURS	

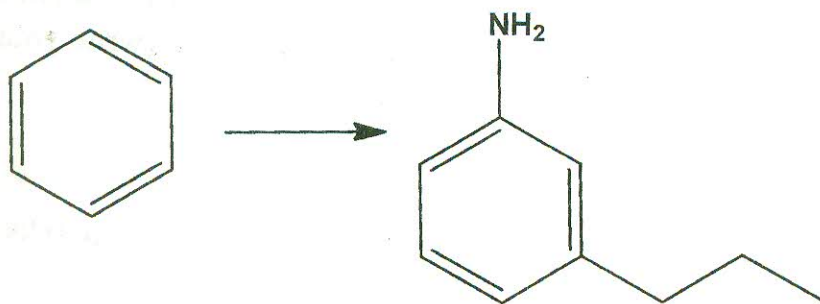
- A) Write the name and the structure of the monomers only for each of the following polymers: (50 marks, 10 marks for each)**
- 1) Nylon 66
 - 2) Poly(methyl methacrylate)
 - 3) Alkyd resin
 - 4) Polycarbonate
 - 5) PET
- B) Write briefly on the following (30 marks, 10 marks for each)**
- 1) Interfacial polymerization
 - 2) Requirements of step-wise polymerization
 - 3) Free radical polymerization of polyethylene
- C) Give reason (20 marks, 10 marks for each)**
- a) Reaction of phenol with Br₂ give ortho and meta direction (write your answers by equations)
 - b) Boiling point of ethers is lowered than alcohols
- D) Write short notes on (30 marks, 15 marks for each)**
- a) Ionic Polymerization>
 - b) Addition of HBr to propene in presence of peroxide

Please Turn Over 

E) Complete the following equations with the name of product (50 marks)



10. From Benzene, how can you obtain 3-propyl aniline



With best regards,

EXAMINERS

PROF. EL-REFAIE KENAWY

DR. MOHAMED A. ABDELWAHAB



Answer the following questions:

1-a) ❶ Rewrite the following sentences and put (✓) in front of the correct sentences and a (×) in front of the incorrect sentences and then *correct* them: (20 Marks)

- 1- Editing commands can be done using the Font Group in the Insert Tab. ()
- 2- To create a new slide in Power Point program we use Home Tab ()
- 3- The clipboard can be shown by using the Insert Tab. ()
- 4- The Font and Paragraph Groups can be used to Format a text. ()
- 5- Slide number can be added by using the Illustration Group in the Insert Tab ()
- 6- ClipArt can be added using the View Tab. ()
- 7- The clipboard can contain more than 12 items. ()
- 8- To hide a slide in Power Point we use the slideshow Tab ()
- 9- A chart can be created in Power Point by clicking the Review Tab. ()
- 10- The Recycle Bin received the cuted and the copied objects. ()

b) Complete the Following sentences (10 Marks)

- a- - To delete a slide we select from the on the Tab
- b- To add Bullets or numbering to text in slide select -----Group in the Home -----
- c- To add a Smart Art in a slide: Click the -----and then select -----
- d- - To change background of a slide click-----Tab and then the-----Group
- e- To add Animation point and click its icon in theGroup in the ----- Tab

2-Write the main points of the following topics in Transferable Skills: (30Marks)

- i- Objectives
- ii- Goals
- iii- Hints for a successful presentation

3-Write briefly on the following: (30 Marks)



- i -Communication Dynamics
- ii- Using Charts and Graphs as tools for Communication , (the four common Graph types)

4-Mention three items of each of the following: (30 Marks)

- i – The sample rules to communicate powerfully by E-mail
- ii -For making a Great First Impression

Best wishes

Dr. SaadAboul-Enein

	جامعة طنطا - كلية العلوم قسم الجيولوجيا برنامج جيولوجيا البترول والتعدين (PMGP)			
	الإمتحان النهائي - المستوى الأول			
	اسم المقرر:	مقدمة في علم المخاطر الجيولوجية	كود المقرر: UN 1206	
	الزمن: ساعتان	الدرجة الكلية: ١٢٠ درجة	الفصل الدراسي: الثاني	٣٠ مايو ٢٠١٧

أجب عن الاسئلة الآتية:-

السؤال الأول:- (٢٤ درجة)

١. ما هي دلائل أو شواهد حدوث الزلزال.
٢. بالرغم من الأخطار الجيولوجية المصاحبة للبراكين إلا أن لهذه البراكين فوائد فما هي؟

السؤال الثاني:- (٢٤ درجة)

١. تكلم عن الأنواع الرئيسية للفيضانات وأسبابها.
٢. إذكر الطرق المختلفة التي تحدث بها الإنهيارات الأرضية وتكلم بالتفصيل عن واحدة فقط من هذه الطرق موضحاً كيفية الإقلال منها أو تجنبها.

السؤال الثالث:- (٢٤ درجة)

- ناقش أنواع النفايات، مع شرح طرق الإستفادة منها وتدويرها والتخلص منها.

السؤال الرابع:- (٢٤ درجة)

- ناقش بالتفصيل مع الرسم كلما أمكن مصادر التلوث بالغلابين المائي والجوي.

السؤال الخامس:- (٢٤ درجة)

- تكلم عن الطرق المختلفة التي يمكن إتباعها للتقليل من المخاطر الناشئة عن الشواطئ.

لجنة الممتحنين والمصححين	ا.د. محمود حسين عشاوي	ا.د. علام احمد مسعود	ا.د. سمير زكي قمح
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تمنياتنا لكم بالنجاح والتوفيق

