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|  | TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY | | | |
| | EXAMINATION FOR SENIORS (FOURTH LEVEL) STUDENTS OF CHEMISTRY-GEOLOGY | | | |
| | COURSE TITLE: | Final Exam of Ore Mineralogy . | | COURSE CODE: GE4226 |
| DATE: | JUNE. 2014 | TERM: SECOND | TOTAL ASSESSMENT MARKS: 100 | TIME ALLOWED: 2 HOURS |

Part I: Ore Mineralogy (60 mins)

Write briefly on the following questions; illustrate your answer with drawing: (50 marks)

- 1- Solid solutions in native metals.
- 2- Colloform textures in supergene minerals.
- 3- Hematite-ilmenite, ulvospinel-magnetite and hematite- magnetite exsolution textures.
- 4- Pentlandite-pyrrhotite , chalcopyrite-sphalerite and bornite-chalcocite exsolution textures.
- 5- Core, relict and selective replacement textures.

Part II: Ore Mineralogy (60 mins)

A) Write on the following; illustrating your answer with drawing: (50 marks)


- 1- Objective lenses.
- 2- Reflectance and anisotropism.
- 3- Microindentation hardness.
- 4- Grinding and polishing equipments.

Examiners:

Prof. Ibrahim Salem

Prof. Bothina El-Dsoky

With Best Wishes

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|  | TANTA UNIVERSITY | | | |
| | FACULTY OF SCIENCE | | | |
| | DEPARTMENT OF GEOLOGY | | | |
| EXAMINATION FOR FOURTH LEVEL STUDENTS OF CHEMISTRY-GEOLOGY | | | | |
| COURSE TITLE: | Final Exam of Mining Geology | | | COURSE CODE: GE4208 |
| DATE: | JUNE. 2014 | TERM: SECOND | TOTAL ASSESSMENT MARKS:100 | TIME ALLOWED: 2 HOURS |

Part One: Write briefly on the following, Illustrate your answer with drawing. (50 marks)

- 1) Compared between surface mining method and underground mining method.
- 2) Drawn sketch of solid mineral reserves
- 3) What do you means by:-
 - i) Balance reserve.
 - ii) Room and Pillar.
 - iii) Cut and filling stoping
 - iv) Longwall stoping
 - v) Block caving
- 4) What the differences between
 - i) Mine and Mining.
 - ii) Stope and stoping.
 - iii) Prospecting works and proving works.


Part Two: Answer The Following Questions. (50 marks)

- 1) Methods of mine ventilation.
- 2) The material for underground support.
- 3) Main stages of extracted surface ores, blasting caps detonators and dynamites.
- 4) Mine air, storage of explosives and conveyor of mine transport.

Examiners:

Prof. Ibrahim Salem

Prof. Hassan Haraz

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|  | TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY | | | |
| | EXAMINATION FOR SOPHOMORES (FOURTH YEAR) STUDENTS OF CHEMICAL/ GEOLOGY | | | |
| | COURSE TITLE: | PRECAMBRIAN GEOLOGY | | COURSE CODE: GE4206 |
| DATE: | JUNE, 2014 | TERM: SECOND | TOTAL ASSESSMENT MARKS: 100 | TIME ALLOWED: 2 HOURS |

1- Discriminate between the following:

- a- Classification of the Precambrian rocks given by El Ramly and Akaad (1960) and Akaad and Noweir (1980)------(20 marks)
- b- Field occurrences of ophiolites and rocks of island arc system------(20 marks)
- c- Geochemistry and Tectonic setting of ophiolites and metagabbros------(20 marks)
- d- Older granites and younger granites------(20 Marks)
- e- Dokhan volcanics and Hammamat sediments------(20 Marks)

Best wishes

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| Examiner | Prof. Dr. Gaafar El Bahariay |
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TANTA UNIVERSITY
FACULTY OF SCIENCE
DEPARTMENT OF GEOLOGY

EXAMINATION FOR 4th LEVEL STUDENTS (CHEMISTRY & GEOLOGY)

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| COURSE TITLE: | PHOTO GEOLOGY | COURSE CODE: GE 4204 |
| DATE: | 31/ 05 /2014 | TOTAL ASSESSMENT MARKS: 100 |
| | | TIME ALLOWED: 2 HOURS |

Write briefly on the following:

- 1- Characteristics of vertical photographs..... (10 marks)
- 2- Compare between pocket and mirror stereoscopes..... (14 marks)
- 3- Relief displacement and factors affecting it.....(12 marks)
- 4- Advantages of an aerial photographs over a map.....(12 marks)
- 5- Major drainage patterns and their geologic significances.....(15 marks)
- 6- Drainage density, photo-tone and obsequent streams.....(15 marks)
- 7- Photogeologic appearance of intrusive igneous rocks and faults(22 marks)

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| EXAMINERS | Prof. Mahmoud H. Ashmawy |
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