	TANTA UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF GEOLOGY						
	EXAMINATION FOR SENIOR (FOURTH YEAR) STUDENTS OF GEOLOGY						
	COURSE TITLE:	SUBSI	JRFACE GEOLOGY AND HYDROGEOLOGY	PAPER NO. 24054			
DATE	JRINE 2013	TERM: SECOND	TOTAL ASSESSMENT MARKS: 60	TIME ALLOWED: 3 HOURS			

## Part I: SUBSURFACE GEOLOGY

(120 Minutes, Total Marks 40)

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

## 1- Write on the followings:

(12 marks)

- a) Criteria for subsurface faulting.
- b) Conventional resistivity logging.
- c) Rotary drilling method.
- 2- What are the information sources for subsurface investigation?.

(10 marks)

## 3- Compare between the following:

(12 Marks)

- a) GR log and SGR log.
- b) Isopach map and percentage map.
- c) Sonic log and neutron log.

## 4- Discuss the following subject :

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(6 marks)

- a) The lithologic components can be determined from the porosity log readings.
- b) The sonic log records matrix porosity rather than secondary porosity.

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