

FACULTY OF BASIC AND APPLIED SCIENCES

DEPARTMENT OF PHYSICAL AND CHEMICAL SCIENCES

SECOND SEMESTER BSC EXAMINATIONS 2016/2017 ACADEMIC SESSION

COURSE TITLE: STRUCTURAL	GEOLOGY & PL	LATE TECTONICS	CODE: AGY 306

COURSE UNITS: 3

TOTAL MARKS: 60

DORATON: 2 Mills

HOD's SIGNATURE

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS. ILLUSTRATE YOUR
ANSWERS WITH COOD DIAGRAMS

		ANSWERS WITH GOOD DIAGRAMS			
1.	(a) (b)	Differentiate between ductile and brittle deformations. Differentiate between the following pairs with the aid of diagrams:	(3 marks)		
		(i) Anticline and syncline	(3 marks)		
		(ii) Normal and reverse faults	(3 marks)		
		(iii)Dextral and sinistral faults	(3marks)		
		(iv)Eugeosyncline and miogeosyncline	(3 marks)		
2.	(a)	Describe the relationship of the various types of faults to the			
		principal stress axes.	(5 marks)		
	(b)	Describe extensional fractures and explain how they form	(5 marks)		
	(c)	Explain the main evidences in support of continental drift.	(5 marks)		
3. (a) (b) (c)	(a)	Describe the structure of the Earth's interior.	(5 marks)		
	(b)	Explain polar wandering.	(4 marks)		
	(c)	Outline the properties of the following:			
		(i) deviatoric stress	(3 marks)		
		(ii) hydrostatic stress	(3 marks)		
4. (a)	(a)	Outline the factors determining dominant deformation mechanism (5 marks)			
	(b)	Write short notes on the following:	,		
	, ,	(i) Cataclasis deformation	(5 marks)		
		(ii) Pressure solution and its evidences	(5 marks)		