

## FACULTY: Basic and Applied Sciences

**DEPARTMENT: Physical and Chemical Sciences** 

## FIRST SEMESTER EXAMINATIONS 2018/2019 ACADEMIC SESSION

**COURSE CODE:** 

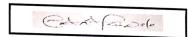
**BCH 405** 

COURSE TITLE:

TOXICOLOGY

**DURATION:** 

**120 MINS** 



## **HOD's SIGNATURE**

## Instruction: Attempt any three (3) of the five (5) questions

i) Writ	the following types of transport mechanisms.			
ii) Facil	) Facilitated diffusion			5 marks
			5 marks	
iii) Active transport				5 marks
iv) Vesicular transport				5 marks
2) Explain the effects of dose and time on the toxicity of xenobiotics.				14 marks
2b) Explain the effects of environmental factors on metabolism of xenobiotics				
2c) From the equation for the dose of drug in the body ( $X_1 = V_D C_p$ ) derive the equation,				
$\oint_0^x \text{Cp dt} = \text{AUC that relates plasma concentration of drug to area under the curve.}$ - 6 marks				
3a) What do you understand by Apparent volume of distribution?				2 marks
3b) What do you understand by peripheral and central compartments? Give two examples of each.				
3c) With the aid of a well-labeled diagram describe the structure GABA A receptor.13 marks				
4) Describe extensively the enterohepatic circulation of xenobiotics.				20 marks
5a) Using two named examples of enzymes explain genetic polymorphism10				10 marks
5b) write short note on the following phase two reactions.				
i)	Glutathione conjugation	ii)	Sulfoconjugation	10 marks