

benzopyrene
+ Ser
Cerium

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FACULTY OF BASIC MEDICAL SCIENCES
BIOCHEMISTRY DEPARTMENT
2017/2018 RAIN SEMESTER EXAMINATION

Course code: BCH 318

Date: 12th July, 2018

Course Title: Xenobiotics

Time: 2 hours

Instruction: Answer four (4) questions in all. At least two questions from each section

SECTION A

1. Write short notes on any three of the following:
 - a. Polycyclic aromatic hydrocarbons (PAH) ✓
 - b. Nitrosamines
 - c. Pyrolysis
 - d. Type IV allergic reactions
 - e. Allergens
2. (a). Write concisely on the contamination of food by aflatoxins.
(b). List the various classes of pesticides based on how or when they work.
3. (a). Describe the response of female animals and castrated males to acute and chronic effects of aflatoxins.
(b). Differentiate between Type 2 and Type 3 allergic reactions

SECTION B

Instruction: Answer question 4 and any other question

4. Write concise note on the following; (i). Xenobiotics (ii). Phase two reactions (iii). cytochrome P450
5. (a) What are the components of the mixed function oxidase (MFO) system
(b) Give a stoichiometric equation of the reaction catalyzed by MFO system
(c) What do you understand by term phase-one reactions?
6. (a) List five types of phase- one and two types of phase-two reactions
(b) Show the pathway for the metabolism of codeine to morphine in a phase 1 reaction.

deglucosylation

epoxide

