BMET 221

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN BIOMEDICAL SCIENCE AND TECHNOLOGY

BMET 221: PATHOPHYSIOLOGY

STREAMS:

DAY/DATE: MONDAY 4/12/2017

INSTRUCTIONS:

- Answer question one and any other two questions
- Do not write anything on the question paper
- 1. (a) Using examples, describe the difference between physiologic and pathologic hyperplasia. [5marks]

(b) Describe various ways through which free radicals may be initiated within cells. [5marks]

(c) Describe how cells become markedly swollen during hypoxic injury. [5marks]

(d) Explain some of the systemic effects of methamphetamine use. [5marks]

(e) Describe the mechanisms that are activated during lipid accumulation in liver cells in the event of cellular injury. [10marks]

2. (a) Describe the features that characterize Macrocytic –Normochromic Anemias.

[10marks]

(b) Describe the pathophysiology of pernicious Anemia.	[10marks]
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- 3. (a) Describe the clinical manifestations of acute leukemia. [10marks]
 - (b) Discuss the different types of necroses that can occur in organs or tissues. [10marks]

TIME: 2 HOURS

8.30 A.M - 10.30 A.M

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4.	(a) Describe embolism as an alteration of cardiovascular function.	[10marks]
	(b) Describe the pathogenesis of atherosclerosis.	[10marks]