## NAME: OGUNNIKE IYANUOLUWA. O MATRIC NO: 18/MHS05/011 COURSE: BCH 204 DEPARTMENT: PHYSIOLOGY COLLEGE: MHS

## QUESTION

- 1a) What are coenzymes.
- b) Differentiate between fat and water soluble vitamins.
- c) Describe niacin in relation to its coenzymic function.

1a) Coenzymes are organic non-protein compound that binds with an enzyme to catalyze a reaction. They are cofactors that are loosely bound to the enzyme.

b)

Water soluble vitamins	Fat soluble vitamins
They are not soluble in fat	They are not soluble in water
They are soluble in water	They are soluble in fat
They have no storage as they	They are stored majorly in the
easily dissolve	liver
Absorption is simple	Absorption occurs along with
	lipids
Deficiency manifests rapidly	Deficiency manifests only
as there is no storage	when stores are depleted.

c) Vitamin B3, generally known as <u>niacin</u>, is a water soluble vitamin. Its coenzymatic functions are to:

i. degrade carbohydrates, fats, proteins and alcohols

ii. to synthesize fatty acids and cholesterol.