**ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD**

***(Department of Agricultural Sciences)***

**WARNING**

1. **PLAGIARISM OR HIRING OF GHOST WRITER(S) FOR SOLVING THE ASSIGNMENT(S) WILL DEBAR THE STUDENT FROM AWARD OF DEGREE/CERTIFICATE, IF FOUND AT ANY STAGE.**
2. **SUBMITTING ASSIGNMENTS BORROWED OR STOLEN FROM OTHER(S) AS ONE’S OWN WILL BE PENALIZED AS DEFINED IN “AIOU PLAGIARISM POLICY”.**

# **ASSIGNMENT No. 1**

**Course: Biochemistry (780) (Half Credit) Semester: Spring, 2011**

**Level: M.Sc (Hons) Livestock Management Total Marks: 100**

**Pass Marks: 50**

Q. 1 Explain themechainsm regarding the working of enzyme. Also explain the two models regarding behaviour of Allosteric enzyme. **(20)**

Q. 2 Discuss the various type of carbohydrates. Draw it various structures. **(20)**

Q. 3 What are the various properties of proteins? Explain the types of proteins through linkages. **(20)**

Q. 4 What are the spingolipids? Discuss various types of lipids in detail. **(20)**

Q. 5 What is hypervitaminosis and provitanins? Discuss the deficiency symptoms of vitamin E and K. **(20)**

# **ASSIGNMENT No. 2**

**Total Marks: 100 Pass Marks: 50**

Q. 1 Discuss the toxicity of following minerals **(20)**

(i) Selenium (ii) Iodine

(iii) Coblat (iv) Copper

Q. 2 What are the hormone Assays. What are the major hormones of reproduction. Discuss its source releasing hormone and physiological function. **(20)**

Q. 3 Explain the process of Rumination? What are the practical implications of Ruminants vs Non Ruminants Digestion. **(20)**

Q. 4 What is Gene mapping. Explain the Watson and Crick Model in detail? **(20)**

Q. 5 Enlist the accessory glands/organs associated with digestive system. What are the major end products of microbial fermentation? **(20)**