BIOCHEMISTRY ELECTIVEPAPER SEMESTER VI

APPLIED BIOTECHNOLOGY

(Applicable from 2013)

Unit 1: Enzyme Biotechnology

Immobilized Enzymes

Biosensors

Enzyme Reactors: Stirred Tank Reactor, Membrane &

Continuous Flow Reactor

Enzyme Engineering

Unit 2: Food Biotechnology

Fermented Foods- Probiotics

Single cell protein

GM foods

Use of Enzymes in Food industry

Unit 3: Medical Biotechnology

Recombinant vaccines

Disease Diagnosis & Treatment (Detection of genetic Disease,

DNA finger printing, Tissue Engineering)

Gene therapy

Unit 4: Environmental Biotechnology

Bioremediation

Biocontrol

Biofertilizers

Xenobiotics & their degradation

BIOCHEMISTRY ELECTIVE 311B ENDOCRINOLOGY - HORMONES

UNIT-1

INTRODUCTION TO HORMONES, ADRENARGIC RECEPTERS,
DIFFERENT MODELS OF HORMONE ACTION

UNIT-2

THYROID HORMONES AND PARATHYROID HORMONES , CHEMISTRY, BIOSYNTHESIS, DISESES ASSOCIATED WITH THYROID DISORDERS,

UNIT-3

PANCREATIC HORMONES – CHEISTRY, BIOSYNTHESIS, DISESES ASSOCIATED WITH PANCREATIC DISORDERS

UNIT-4

ADRENAL (CORTEX, MEDULA) AND GONADAL HORMONES – CHEISTRY, BIOSYNTHESIS,
DISESES ASSOCIATED WITH PANCREATIC DISORDERS