

ANNEXURE-III

Recommended Paper-wise Topic Distribution for UG Biochemistry Syllabus **Atal Bihari Vajpayee Medical University, Lucknow**

Paper I (Total = 100 Marks) [MCQs = 20 Marks]

- Basic Biochemistry:
 - ✓ Subcellular Organelles and Cell Membrane
 - ✓ Transport across membrane
- Enzymes
- Chemistry and Metabolism of Carbohydrates
- Chemistry and Metabolism of Lipids
- Metabolism of Alcohol
- Biological Oxidation
- Integration of metabolism (Metabolic profile under well fed state and fasting state)
- Nutrition, Vitamins & Minerals
- Endocrine organs/Hormones/Clinical Chemistry:
 - ✓ Hormones/Endocrine Organs
 - ✓ Acid base balance
 - ✓ Water and Electrolyte balance
 - ✓ Renal, Liver, Adrenal and Thyroid Function Tests
 - ✓ Role of Artificial Intelligence in Clinical Laboratory

Paper II (Total = 100 Marks) [MCQs = 20 Marks]

- Molecular Biology
- Extracellular Matrix and Tissue Proteins in Health and Disease
- Chemistry and Metabolism of Purine & Pyrimidines
- Chemistry and Metabolism of Proteins
- Chemistry of Immunology
- Haemoglobin & Heme Metabolism
- Biochemistry of Cancer
- Xenobiotic, oxidative stress and antioxidants
- HIV and Biochemistry of AIDS
- AETCOM

Core Committee
Board of Studies (Biochemistry)
Atal Bihari Vajpayee Medical University