

**SYLLABUS for**  
**Common Entrance Examination (CEE) for Undergraduate Academic Programs of AFU**  
**(B.Sc.Ag., B.V.Sc.&A.H., B.Sc. Forestry, B.Sc. Fisheries)**

**Subject-wise question distribution for Undergraduate Entrance Examination**

| S.N.         | Subjects          | No. of Questions |
|--------------|-------------------|------------------|
| 1.           | English           | 22               |
| 2.           | Mathematics       | 12               |
| 3.           | Physics           | 12               |
| 4.           | Chemistry         | 22               |
| 5.           | Botany            | 22               |
| 6.           | Zoology           | 22               |
| 7.           | General Knowledge | 8                |
| <b>Total</b> |                   | <b>120</b>       |

**Syllabus - Major Contents:**

| S.N. | Subject            | Major Syllabus Contents                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No. of Questions |
|------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 1.   | <b>ENGLISH</b>     | Reading Comprehension, Grammar and Structure, Vocabulary                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>22</b>        |
| 2.   | <b>MATHEMATICS</b> | Algebra, Trigonometry, Analytic Geometry, Vectors, Statistics & Probability, Calculus, Computational Methods<br>OR Mechanics/ Maths for Economics & Finance                                                                                                                                                                                                                                                                                                                                        | <b>12</b>        |
| 3.   | <b>PHYSICS</b>     | Units, Dimensions, and Measurement, Scalars and Vectors, Kinematics and Projectile Motion, Dynamics and Momentum, Work, Energy, and Power, Gravity and Gravitation, Hydrostatics, Properties of matter, Heat and Temperature (Thermal Expansion), Light: reflection, refraction, optical instruments and prism, Waves and sound, Electrostatics and Capacitors, Magnetism, Current electricity, Modern physics                                                                                     | <b>12</b>        |
| 4.   | <b>CHEMISTRY</b>   | General and physical chemistry: Basic Concepts and Formulas, Atomic Structure, Periodic Table and Properties, Chemical Bonding, Gas Laws and States of Matter, Oxidation and Reduction, Acids, Bases, and Salts, Chemical equilibrium, Volumetric Analysis, Electrochemistry; Inorganic chemistry: Chemistry of metals, Chemistry of non-metals; Organic chemistry: Fundamental principles, Hydrocarbons, Alcohols, Phenols and Ethers, Aldehydes and Ketones, Carboxylic Acid and its Derivatives | <b>22</b>        |
| 5.   | <b>BOTANY</b>      | Biomolecules and Cell Biology, Floral Diversity (Taxonomy and biodiversity), Plant Anatomy, Plant Physiology, Genetics, Taxonomy and Classification, Microbiology (Virus / Bacteria), Embryology, Biotechnology                                                                                                                                                                                                                                                                                    | <b>22</b>        |
| 6.   | <b>ZOOLOGY</b>     | Evolutionary Biology, Faunal/animal Diversity, Ecosystem and Environment, Conservation Biology,                                                                                                                                                                                                                                                                                                                                                                                                    | <b>22</b>        |

|    |                          |                                                                                                                                                                                                                   |            |
|----|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|    |                          | Animal Tissues, Developmental Biology, Life processes in mammals                                                                                                                                                  |            |
| 7. | <b>GENERAL KNOWLEDGE</b> | Current Affairs, Sports, Entertainment, Geography, History, Politics, National and International Affairs, Science and Technology, Agriculture, Animal Science, Veterinary Science, Forestry, Fisheries and others | <b>8</b>   |
|    | <b>TOTAL</b>             |                                                                                                                                                                                                                   | <b>120</b> |