

BACET, 2019

ENTRANCE TEST FOR ADMISSION INTO M.Sc. (Biochemistry & Agricultural Chemistry) DEGREE PROGRAMME 2019-20

- Written examination will be held on July 10, 2019 at 10.00 AM – 12.00 Noon (Tuesday) in the Academic Complex at AAU, Jorhat campus.
- The test will constitute 150 multiple choice questions, both general aptitude and subject matter, covering the syllabus given hereunder.
- There shall be no negative marks for wrong answers.

SYLLABUS on THE SUBJECT

Some basic concepts of chemistry, solid state, solutions, structure of atom, chemical bonding and molecular structure, states of matter: gases and liquids, redox reactions, alcohols, phenols and ethers, aldehydes, ketones and carboxylic acids, organic compounds containing nitrogen, bioenergetics, biomolecules, biopolymers, chemistry in everyday life, isomerism.

Importance of biochemistry in agriculture, acid-base concept and buffers; pH, classification, structure and metabolic functions of carbohydrates, lipids and proteins, structure and function of nucleic acids, enzymes: structure, nomenclature, mechanism of action; vitamins and minerals as coenzymes and cofactors, photosynthesis, secondary plant metabolites