



CUET PG Bio Subjects - SCQP17 Syllabus



राष्ट्रीय परीक्षा एजेंसी
National Testing Agency
Excellence in Assessment

**Syllabus
for
Life Sciences (SCQP17)**

Note:

- i. There will be one Question Paper which will have 100 questions.*
- ii. All questions will be compulsory.*
- iii. The Question Paper will have two Parts i.e. Part A and Part B:*
- iv. Part A will have 25 questions based on Language Comprehension/Verbal Ability, General Awareness, Mathematical/Quantitative ability and Analytical Skills.*
- v. Part B will have 75 questions based on Subject-Specific Knowledge.*

Life Sciences (SCQP17)

- 1. Techniques:** Principles and applications of chromatography, spectroscopy, microscopy, electrophoresis, centrifugation, blotting, PCR & radioisotope techniques
- 2. Chromatin structure and function:** Organization of chromosomes in prokaryotes and eukaryotes, chromatintypes, centromere, Telomere and concept of gene
- 3. Biochemistry:** Structure and functions of proteins, DNA, carbohydrates, lipids & vitamins. Bioenergetics, Glycolysis, TCA cycle, Electron Transport System and ATP synthesis, oxidation and synthesis of fatty acid, membrane structure and function
- 4. Biotechnology:** Recombinant DNA technology, principles of gene cloning, applications of biotechnology in medicine, industry and agriculture, animal & plant cell culture, environmental biotechnology
- 5. Microbiology:** Diversity of microbes, bacterial reproduction, antimicrobial agents, significance of microbes in the industry and agriculture, antigen, antibody, complement systems, immunity, vaccines, plant virus, animal virus and environmental microbiology.
- 6. Molecular Genetics:** Principles of inheritance, linkage & crossing over, chromosomal aberrations, extrachromosomal inheritance, replication, transcription, translation, DNA repair and population genetics
- 7. Plant Sciences:** Bryophytes, Pteridophytes, Gymnosperms, Angiosperms, Vascular system in plants, Economic important of plants, Photosynthesis, Photoperiodism, Vernalization, and Biogeochemical cycle
- 8. Animal Sciences:** Characteristics of invertebrates and vertebrates, anatomy and physiology of different system of humans, nerve impulse transmission, endocrinology, human diseases Apoptosis and cancer, inherited diseases, animal cell culture.

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