



KUVEMPU UNIVERSITY
OFFICE OF THE DIRECTOR
DIRECTORATE OF DISTANCE EDUCATION
Jnana Sahyadri, Shankaraghatta – 577 451, Karnataka



Phone: 08282-256426; Fax: 08282-256370; Website: www.kuvempuuniversitydde.org
E-mails: ssgc@kuvempuuniversity.org; info@kuvempuuniversitydde.org

TOPICS FOR INTERNAL ASSESSMENT ASSIGNMENTS (2019-20)
Course: M.Sc. BIO-TECHNOLOGY (Previous)

Note: Students are advised to read the separate enclosed instructions before beginning the writing of assignments.

Out of 15 Internal Assignment marks per paper, 5 marks will be awarded for regularity (attendance) to Counseling/ Contact Programme/ Practical classes pertaining to the paper. Therefore, the topics given below are only for 10 marks each paper.

Paper I: Chemistry of Biomolecules and Biostatistics

- 1 Write a detailed account on Terpenoids. **5 Marks**
- 2 Write an account on the Probability Distribution **5 Marks**

Paper II: Cell and Molecular Biology

- 1 Give a detailed account on the enzymes involved in DNA replication **5 Marks**
- 2 Explain the structure and functions of Cell Membrane **5 Marks**

Paper III: Microbiology & Immunology

- 1 Explain different types of staining technique in Microbiology **5 Marks**
- 2 Write an account on Tumor Immunology. **5 Marks**

Paper IV: Basic Enzymology

- 1 Give a detailed account of Isolation and Purification of Enzymes **5 Marks**
- 2 Give a detailed account of Classification, Nomenclature & properties of Enzymes **5 Marks**



KUVEMPU UNIVERSITY
OFFICE OF THE DIRECTOR
DIRECTORATE OF DISTANCE EDUCATION



SAHYADRI, SHANKARAGHATTA – 577 451, KARNAT.

Phone: 08282-256246, 256426; Fax: 08282-256370; Website: www.kuvempuuniversitydde.org

E-mail: info@kuvempuuniversitydde.org; ssgc@kuvempuuniversitydde.org

Topics for Internal Assessment Assignments (2019–20)

Course: M.Sc. BIO-TECHNOLOGY (Final Year)

Note: Students are advised to read the separate enclosed instructions before beginning the writing of assignments.

Out of 15 Internal Assignment marks per paper, 5 marks will be awarded for regularity (attendance) to Counseling/ Contact Programme/ Practical classes pertaining to the paper. Therefore, the topics given below are only for 10 marks each paper.

PAPER-V: CELL AND TISSUE CULTURE TECHNOLOGY

1. Describe in detail the techniques and importance of protoplast culture **(05 Marks)**
2. Write an account on the composition and preparation of animal cell culture media and their importance. **(05 Marks)**

PAPER –VI: INDUSTRIAL AND ENVIRONMENTAL BIOTECHNOLOGY

1. Describe the Downstream Processing. **(05 Marks)**
2. Describe the strategies employed in Hazardous waste management. **(05 Marks)**

PAPER- VII: COMPUTER APPLICATIONS AND BIOINFORMATICS

1. Write a detailed account on the importance and applications of MS-Office. **(05 Marks)**
2. Explain protein sequence databases with suitable examples. **(05 Marks)**

PAPER-VIII: RECOMBINANT DNA TECHNOLOGY

1. Explain the procedure of animal cloning. Add a note on the ethical issues related to it. **(05 Marks)**
2. With an appropriate diagrams, explain the methods of Direct Gene transfer. **(05 Marks)**