

IET BIOTECHNOLOGY INSTITUTE, ALWAR

[An IET Group of Institutions]

Approved by : Government of Rajasthan

Affiliated to : University of Rajasthan, Jaipur (Rajasthan)

An ISO 9001 : 2000 Certified Institute

SCHEME OF EXAMINATION

1. The course of M.Sc. (Biotechnology) shall be spread over two academic years to be called M.Sc. Previous and M.Sc. Final years.
2. Each theory paper will have 9 questions, out of which a candidate has to attempt 5 questions and the question no. 1 will be compulsory. The question number 1 will carry 20 marks and will be of several short objective type of questions such as one word answer, fill in the blanks, true or false, or multiple choice type. The question no. 1 will be set in a manner to cover the entire course.
3. In each practical paper 15% marks will be reserved for the practical record and 10% marks for the viva voce examination. The practical record will also have a typed record of one seminar delivered by the student.
4. The Elective paper in the M.Sc. Final year will be based on detailed review report on one of the courses listed in the syllabus. The student will make a complete report in about 100 pages that shall be evaluated by the course coordinator and one internal teacher. The marks will be awarded internally.
5. Dissertation. The project work will involve in depth practical work on a problem suggested by the supervisor of the candidate. The evaluation of the dissertation will be done by the external examiner and carry 200 marks. The dissertation submitted by the candidate shall be evaluated by one external expert, Head of the department and supervisor of the candidate. The seminars, in-plant training and industrial visit reports visit will also be submitted by the candidate to the head of the Department who will submit these to the external examiner. The examination shall be held in the department and the dissertation etc. will NOT be required to be mailed to the external examiner. The distribution of the marks will be as under.
6. Minimum pass marks will be 36% in theory as well as practical. First division (60%) and second division (48%).

Dissertation	- 100 Marks
Viva Voce	- 50 Marks
Seminar Report	- 25 Marks
Industry Visit	- 25 Marks
Total	- 200 Marks

Distribution of Papers :

Syllabus for M.Sc. (Biotechnology) Previous :

S. No.	Paper	Subject	Marks
1	Paper I	Cell Biology	100
2	Paper II	Biological Macromolecules and Basic Enzymology	100
3	Paper III	Microbial diversity, Physiology and Genetics	100
4	Paper IV	Molecular Biology	100
5	Paper V	Virology Immunology	100
6	Paper VI	Genetic Engineering	100
7	Practical I	Based on Theory Papers I, II and III	150
Total			750

Syllabus for M.Sc. (Biotechnology) Final :

S. No.	Paper	Subject	Marks
1	Paper VII	Animal Cell Science and Technology	100
2	Paper VIII	Plant biotechnology	100
3	Paper IX	Bioprocess Engineering and Technology	100
4	Paper X	Bioresource and Environmental Biotechnology	100
5	Practical III	Based on theory papers VII to X	200
6	Paper XI	Elective (Internal evaluation)	100
7	Paper XII	Dissertation	200
Total			900