

Dr. B. Lal Institute of Biotechnology

An Exclusive Biotechnology Institute

BEST-2019, B.Sc.

Biotechnology Entrance Cum Scholarship Test

The admission to Under Graduate program B. Sc Biotechnology for session 2019-20 in Dr. B. Lal Institute of Biotechnology will be on the basis of the entrance examination **Biotechnology Entrance Cum Scholarship Test (BEST)**. Biotechnology Entrance Cum Scholarship Test (BEST) is an examination that particularly tests the comprehensive understanding of various science subjects and aptitude of students. The college aims to ensure minimum standards for the entrants in the field of biotechnology.

Date of Examination – 19th May, 2019

Timings- 11 AM to 1 PM

ELIGIBILITY CRITERIA

- i. 10+2 (Biology/ Mathematics/ Agriculture) with 50% marks from a recognized board in Rajasthan and 60% marks for students outside Rajasthan.
- ii. Students shall not be eligible for admission to a course unless they have passed the qualifying examination or any other examination recognized for the purpose and possess such other qualifications (if any) as may be prescribed by the Ordinances.
- iii. Students who have passed their last qualifying exam either in 2017 or after, and have not taken admission anywhere in the interim period, will be considered new entrants. Such student must give an undertaking on a fifty rupees non-judicial stamp paper stating that they have not enrolled themselves in any University. Students who have passed their last qualifying exam before 2017 will not be eligible for admission.
- iv. As per University of Rajasthan norms, if seats remain vacant in the college, female candidates are given reduction of 5% in minimum percentage for admission.
- v. Reservation for ST/SC, Sports and Physically handicapped as per the norms of University of Rajasthan.
- vi. If any candidate is found to be ineligible, his/her candidature will be cancelled. Such candidates will be liable for legal action.

ADMISSION CRITERIA

Admission to under graduate programmes of study in Dr. B. Lal Institute of Biotechnology shall be submitted online/ offline as per notification of admission by the Institute.

- Admission of a student to a course shall be subject to the conditions prescribed by the relevant University Ordinance/Rules as applicable to the course in which the admission is sought.

- Admission to under graduate programme in the Institute shall be based on objective type test (70% weightage) and academic record of qualifying examination (30% weightage).
- Acceptance of application form does not guarantee admission.
- Seats will be reserved for S.C., S.T., OBC (except creamy layer), SBC, Kashmiri Migrants and Differently abled applicants as per Government of Rajasthan policy/ as per directions of Hon'ble High Court of Rajasthan.
- Admissions will be made on the basis of merit (BEST score + Academic Score + Concession/ Weightage Marks(if applicable)) subject to the availability of seats in each category and fulfillment of conditions laid down by the University for the purpose from time to time.
- The student must also have Senior Secondary Examination Certificate to get eligible for admission.
- All admission will be provisional till the applicant completes all the formalities required.
- Payment of fee: No student shall be treated as admitted to the course until he/she has deposited the necessary fee (admission, tuition and others). All fees will be charged for 12 months irrespective of the date of admission. Fees once paid shall not be refunded except the caution money.
- Scholarships are available on merit basis of the examination conducted.
 - ✓ Students scoring from 75% - 80% will get 10% scholarship.
 - ✓ Students scoring from 80.1% - 90% will get 15% scholarship.
 - ✓ Students scoring from 90.1% - 95% will get 25% scholarship.
 - ✓ Students scoring 95.1 % above will get 50% scholarship.

For details refer University of Rajasthan Prospectus.

IMPORTANT INFORMATION

Students can register for the exam by filling a Registration form which is available on the website or collect from Admission office. The Application fee is Rs. 500/-

IMPORTANT DATES:

Last Date of Application	16 th May 2019
Date of Examination	19 th May 2019
Date of Result Announcement	25 th May 2019

RULES AND REGULATIONS

- The student must not carry mobile phones or any other gadget into the examination hall.
- Practice of unfair means is a punishable offence.
- Last entry in the examination centres upto 10:30 AM.

SYLLABUS FOR THE EXAMINATION

- i. The test is of 2 hours duration and the test booklet will contain 100 questions carrying 3 marks each. For each correct response, the candidate will get 3 marks. There will be negative marking and for each incorrect response, 1 mark will be deducted from the total score. The maximum marks are 300.
- ii. The examination will contain two sections: Section A and Section B. Section A will contain 20 questions covering general aptitude, physics and chemistry. Section B will contain 80 questions from Biology.

General Aptitude:

1	Verbal Ability: English Grammar, Sentence Completion, Verbal Analogies, Word Groups, Instructions, Critical Reasoning, Verbal Deduction, Comprehension.
2	Numerical Ability: Numerical Computation, Numerical Estimation, Numerical Reasoning And Data Interpretation.

Biology:

1	Diversity of Living Organisms: The living world, Biological classification, Plant Kingdom, Animal Kingdom.
2	Structural Organization in Animals and Plants: Morphology, Anatomy of flowering plants, Structural organization in Animals.
3	Cell Structure and Functions: Cell- the unit of life, Biomolecules, Cell cycle and Cell Division.
4	Plant Physiology: Transport in plants, Mineral Nutrition, Photosynthesis in higher plants, Respiration in Plants, Plant growth and Development.
5	Human Physiology: Digestion, absorption, Breathing and gaseous exchange, Body fluids and circulation, Excretory products and their elimination, Locomotion and movement, Neural control and co-ordination, Chemical co-ordination and integration.
6	Reproduction: Reproduction in organisms, sexual reproduction in flowering plants, Human reproduction, reproductive health.
7	Genetics and Evolution: Principles of inheritance and variation, Molecular Basics of Inheritance, Evolution.
8	Biology and Human Welfare: Human health and diseases, Strategies for enhancement in food production, Microbes in Human welfare.
9	Biotechnology and its applications: Biotechnology- principles and processes, Biotechnology and its applications.
10	Ecology and Environment: Organisms and populations, Ecosystem, Biodiversity and

	its conservation, Environmental issues.
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Physics:

1	Physical world and measurement: Physical world, Units and measurements.
2	Kinematics: Motion in a straight line, motion in a plane.
3	Laws of motion, Work, Energy, Power, Motion of systems of particles and rigid bodies, Gravitation.
4	Properties of Bulk matter: Mechanical properties of solids and fluids, Thermal properties of matter.
5	Thermodynamics, Behavior of perfect gases and kinetic theory of gases.
6	Mechanical waves and ray options: Oscillations and waves, ray optics.
7	Electrostatics: Electric charges and fields, Electrostatic potential and capacitance.
8	Current Electricity
9	Magnetic effect of Current and Magnetism: Moving charges and magnetism, Magnetism and Matter.
10	Electromagnetic Induction and Alternating Currents, Electromagnetic waves.
11	Optics: Ray optics and optical instruments, wave optics. Dual nature of radiation and matter
12	Atoms and Nuclei, Electronic Devices, Communication systems: Semi-conductor electronics: Materials, devices and simple circuits.

Chemistry:

1	Some Basic Concepts of Chemistry, Structure of Atom, Classification of Elements and Periodicity in properties, Chemical Bonding and Molecular structure, States of Matter: Solids, Liquids, Gases, Chemical Thermodynamics and Equilibrium, Redox reactions, Hydrogen, s- block, p-block elements, Organic Chemistry- some basic Principles and Techniques, Hydrocarbons, Environmental Chemistry.
2	Solid State, Solutions, Electrochemistry, Chemical Kinetics, Surface Chemistry, General Principles and processes of isolation of elements, p-block elements, d- and f- block elements, Coordination compounds, Haloalkanes and Haloarenes, Alcohols, phenols and ethers, Aldehydes. Ketones and Carboxylic Acids, Organic compounds containing Nitrogen, Biomolecules, Polymers, Chemistry in Daily Life.

