The University of Lahore

Admission Kit

Institute of Molecular Biology & Biotechnology

Undergraduate & Graduate Programs

Admission Office

1-km Raiwind Road Lahore. Ph.: 042-35963421-28
1-km Defense Road, Off Raiwind Road, Near Bhoptian Chowk Lahore. Ph.:042-35321456-60

Web: www.uol.edu.pk  Email: admissions@uol.edu.pk
**Brief Programs Information**

Program Name: **BS Biochemistry & Biotechnology**  
Entry Requirements: Minimum 45% 12 years of education/HSSC/Intermediate  
Program Duration: 4 Years (08 semesters) 131 Credit Hours  
Program Recognition: HEC  
Program Location: Defense Road Campus

Program Name: **BS Biotechnology**  
Entry Requirements: Minimum 45% 12 years of education/HSSC/Intermediate  
Program Duration: 4 Years (08 semesters) 131 Credit Hours  
Program Recognition: HEC  
Program Location: Defense Road Campus

Program Name: **BS Microbiology & Biotechnology**  
Entry Requirements: Minimum 45% 12 years of education/HSSC/Intermediate  
Program Duration: 4 Years (08 semesters) 130 Credit Hours  
Program Recognition: HEC  
Program Location: Defense Road Campus

Program Name: **BS Molecular Biology & Biotechnology**  
Entry Requirements: Minimum 45% 12 years of education/HSSC/Intermediate  
Program Duration: 4 Years (08 semesters) 130 Credit Hours  
Program Recognition: HEC  
Program Location: Defense Road Campus

Program Name: **BS Environmental Sciences**  
Entry Requirements: Minimum 45% 12 years of education/HSSC/Intermediate  
Program Duration: 4 Years (08 semesters) 130 Credit Hours  
Program Recognition: HEC  
Program Location: Defense Road Campus

Program Name: **M.Sc. Biochemistry & Biotechnology**  
Entry Requirements: Minimum: 2nd division & 14 years of education/B.Sc. or Equivalent  
Program Duration: 2 Years (04 semesters) 60 Credit Hours  
Program Recognition: HEC
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SAMPLE TEST BS

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<tr>
<th>Section 1</th>
<th>Time Allowed: 1 Hour</th>
<th>Questions: 30</th>
<th>Choose the correct answer for each question and SHADE the corresponding choice on answer sheet.</th>
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PART 1 LANGUAGE

Instructions
A. In each of the following questions, pick the one most nearly opposite in meaning.

1) Vicious
   A. depraved
   B. moral
   C. profligate
   D. iniquitous
   E. ferocious

2) Heterogeneous
   A. uniform
   B. dispersed
   C. abridged
   D. mixture
   E. simple

3) Redundant
   A. insufficient
   B. expanded
   C. profound
   D. numerous
   E. verbose

4) Sedulity
   A. silent
   B. justify
   C. futility
   D. carelessness
   E. verbosity

B. For each blank, pick the word or set or a word that best reflects the sentence’s meaning.

5) A judgment made before all the facts are known must be called______________
A. harsh  
B. deliberated  
C. sensible  
D. premature  
E. fair  

6) The Supreme Court reversal of its previous ruling on the issue of provincial rights ____________ its reputation for ________________.

   A. Sustained.................inconsistency  
   B. Compromised..................consistency  
   C. Maintain....................fallacy  
   D. Spoiled......................flexibility  
   E. Dispelled.....................vacillation  

7) The study on Pseudomonas is so ________________ that it leaves no part of life cycle of this notorious pathogen.

   A. comprehensive  
   B. haphazard  
   C. sporadic  
   D. prolific  
   E. clean  

8) As the French archaeologist expected, living condition in Gandhara civilization were _________________ worse than those of days

   A. broadly  
   B. astonishing  
   C. significantly  
   D. begrudgingly  
   E. awful  

**PART II: SCIENTIFIC**

1) When two amino acids joined, the alpha-amino group of one amino acid acts as nucleophile to displace the hydroxyl group of another amino acid which leads to formation of a peptide bond. This joining is achieved by a reaction mechanism called

   A. electrophilic  
   B. neutrophilic
C. condensation
D. amino acid substitution
E. hydrolysis

2) The peptide bond in proteins is considered to be

A. no planar
B. linear
C. planar
D. non rigid
E. hydrophobic

3) Alpha helices are found in proteins

A. right handed form
B. left handed form
C. right and left handed form
D. in parallel form
E. in antiparallel form

4) Secondary structure in proteins are predominantly stabilized by

A. Covalent interaction
B. hydrophobic interactions
C. hydrogen bonding
D. Vander wall forces
E. dipole interactions

5) Which of the following residues usually occur in beta turns?

A. proline and glycine
B. alanine lysine
C. valine and cysteine
D. threonine and serine
E. glutamate and aspartate
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PART II: LOGIC

9) Which of the following is the sum of two consecutive prime numbers?

A. 66  
B. 52  
C. 41  
D. 29  
E. 68

10) A clock gains 8 minutes every x hours. How many hours will the clock gain in 3 days?

A. \( \frac{576}{x} \)  
B. \( \frac{485}{x} \)  
C. \( \frac{24}{x} \)  
D. \( \frac{576}{x} \)

11) One sixth of a day is what part of time between 3 p.m. Monday and 3 p.m. Thursday of the same week?

A. \( \frac{1}{10} \)  
B. \( \frac{1}{18} \)  
C. \( \frac{1}{15} \)  
D. \( \frac{1}{12} \)

12) If \( 2x+5y = 18 \) and \( x=4 \) then what is value of \( y \)?

A. 2  
B. 3  
C. 4  
D. 5  
E. 10

13) If three times of a number is 6 than twice the number. What is the value of the number?

A. 2  
B. 4  
C. 6  
D. 8  
E. 10
PART II SCIENTIFIC

14) The function of the larynx, which is placed above the trachea, is to

A. produce sound
B. absorb O₂
C. send out CO₂
D. prevent dust
E. sneezing

15) The inflammation of the respiratory path causes

A. Thrombosis
B. Bronchitis
C. Catarrh
D. Sneezing
E. Cancer

16) The muscles that are responsible for breathing are

A. Voluntary
B. Involuntary
C. Cardiac
D. Skeletal
E. None of the above

17) Globular proteins is comprised of most of the _________________

A. Enzymes catalyze metabolic reactions
B. regulatory proteins
C. proteins which provides support to vertebrates
D. A and B
E. Folded proteins

18) Enzymes are generally classified into various classes on the basis of

A. structural similarity
B. sequence similarity
C. evolutionary relationship
D. type of reaction they catalyze
E. A and B
Instructions for Applicants:

1. The applicants are encouraged to read the following information before filling up the Admission Form carefully and avoid overwriting.

2. The applicant either male or female, who fulfills the requirements prescribed by the University and conditions mentioned in the prospectus, is eligible to apply for admission.

3. The selection of applicant shall be on merit, determined on the basis of marks obtained in the last examination, entry test and such other criteria as University may determine.

4. Application for admission must be made on the prescribed form annexed to the Prospectus which may be obtained from Admission Office on payment of Rs.1500/- during office hours. An applicant can also download the Admission Form from the University website and send it through courier. In such cases, he or she will send a bank draft of Rs. 1700/- in favour of “The University of Lahore”. The foreign applicants will send a bank draft of US$ 25/-. 

5. An applicant can apply in four degree programs at a time. However, he or she will be charged Rs. 300/- per choice excluding the first one.

6. Certified photocopies of the following documents are required to be attached with the Admission Form:
   a) 02 colored passport size photographs
   b) Matric, Inter, Bachelor and Master degrees
   c) CNIC card of the applicant of Form B of the father

7. Don’t attach Domicile, Character and Hope Certificate with Admission Form.

8. In case, an applicant does not have certified copies of the required documents, the same may be attested by University Admission Officer on submission of the original documents.

9. The Admission Form must be filled and signed by the applicant.

10. Applicants awaiting final exam result or those who have appeared in supplementary exam are eligible to apply for admission. However, in such cases, they will be deprived of qualification weightage and will be purely evaluated on the basis of their test score.

11. The applicants bearing O-Level, A-Level qualification or equivalent are required to submit their IBCC Equivalence Certificate in order to determine their eligibility. If an applicant fails to produce the same, he or she will not be given qualification weightage.
12. The foreign applicants are required to attach the following additional documents with the Admission Form:

a) Proof of Citizenship  
b) Copy of Passport  
c) Copy of Visa  
d) Visa issuance and expiry proof  
e) Copy of ID card

13. Please mention your mailing address clearly.

14. In order to get admission in MS/M.Phil. Programs, the applicants are required to qualify UOL Entrance Test, Interview or both. The successful applicants will have to qualify NTS test after admission as per policy of HEC. If they fail to do the needful, they will not be issued degree and final transcript. For admission in Ph.D., GRE (subject) test is mandatory.

15. The UOL offers female hostel. The rent per room is Rs. 10,000-12,000/- per month. The University transport is available throughout the Lahore City.

16. All admissions are granted on “Provisional” basis. It is the sole responsibility of the selected applicants to provide proof of their eligibility within 3 weeks of the declaration of the result failing which their admission will be cancelled.

17. The applicants are strongly encouraged to take special care of the fee deadlines otherwise he or she will be deprived of admission.

18. In order to avoid any inconvenience, please submit your Admission Form before the admission closing date.

19. The University is authorized to amend its rules including fee any time without prior intimation.

20. The University has not authorized any publisher or person for preparation of its Entrance Tests. So please beware of such elements.

21. Incomplete Admission Forms will be rejected. Documents once submitted are non-returnable.