



# THE LEAD SCHOOL & COLLEGE KOHAT

## Scholarship Test Syllabus for Grade 9

Session 2026-2027

### ENGLISH

Study KPK English Book for Grade 9 , Tenses , Voices (Active Voice and Passive Voice) , Narrations (Direct Speech and Indirect Narration) , Applications , Stories , Letters , Essays

### MATHEMATICS

#### Matrices:

Types of matrix , Row and column of matrix , Order of matrix , Equality of two matrix , Transpose of matrix , Addition , subtraction , Multiplication of Matrices , Multiplicative Inverse of matrix , Determinant , singular , non singular and adjoint of a matrix , Solution of system of equations using Cramer's rule and by inversion Method.

#### Real and Complex numbers:

Radical , radicand and index , Law of Indices , Transformation of radical from into exponential and exponential into radical from. Addition , subtraction , multiplication and division of complex number.

#### Logarithm:

Laws of logarithm Writing a number in scientific and standard notation. Logarithmic form and exponential form , Find logarithm and anti logarithm of a number. Solution of questions by using Laws.

### BIOLOGY

#### ➤ Introduction of Biology

Biology , branches of biology , Linkage of biology , Career in biology , Muslim scientists , Cellular organization.

#### ➤ Solving of Biological Problem:

Biological problem , biological Method , Steps of biological Method , Problem of Malaria Plasmodium and causes of malaria.

#### ➤ Biodiversity:

Biodiversity, Importance of biodiversity , Virus , Classification , Five kingdom system of classification. Two kingdom system of classification. , Binomial Nomenclature , Deforestation causes of deforestation.

#### ➤ Cell and Tissue

Microscope, Cell , Cellular Structure, Organelles , Animal and Plant tissue.

### CHEMISTRY

#### ➤ Fundamental of Chemistry

Basic definition Atom, Compound , Molecule , Mixture , Atomic number, Atomic Mass, Isotopes. Avogadro Number, Mole, Chemical formula , Formula unit, Molecule formula, empirical formula

#### ➤ Structure of Atom

Conclusion of Retherford's Atomic mole , Draw back of Retherford Atomic Model  
Dalton atomic theory and Nail Bohr's Atomic theory , Main point of Bohr's Atomic theory

➤ **Periodic Table.**

Periodic Groups. Periodicity of properties, Electronegativity , Electron Affinity , Shielding effect  
Chemical reactivity Ionic bond .Ionic compound , Covalent Bond, Covalent compounds.

## PHYSICS

### Physical Quantitation and Measurement.

Branches of Physics , Physical quantities. Basic quantities , derived quantities.

Internation system of units . SI units Derived units , Scientific Notation

Prefixes , Instrument of measurement. Vernier caliper , screw gauge.

Stop watch. Mechanical stop watch. Digital stop watch , Significant figures. Rounding significant figures.

Numerical questions.

**Kinematics:** Rest and motion, types of motion, Translatory motion, Rotatory motion, vibratory motion.

Scalar and Vectors and Representation , Distance and displacement .

Speed . Average , variable ,and instantaneous speed , Equation of motion.

Basic Definitions:

Velocity, speed , displacement , distance, gravity, energy, temperature ,force and weight , Types of energy.

## اردو - گرائمر حصہ

علم بیان ( تشبیہ ، استعارہ ، مجاز مرسل ، کنایہ ) علم بدیع کی تعریف اور اس کے اقسام ، واحد جمع ، الفاظ مترادف ، الفاظ متضاد ، مذکر مؤنث ، درخواستیں ، مضامین ، خطوط ، مکالمے ، شعری اصناف سخن ، مرکبات

## اسلامیات

سورة النفال ، احادیث ، طہارت ، قرآن مجید

### **Instruction for Scholarship Test**

- Reporting time 08: 00 AM While Test Timing 09 : 00 AM
- Sit on allocated Seat.
- For Heading using Black or Blue markers.
- Test sheets will be provided by school.
- Bring your own stationary items and clip boards.
- Brings Roll Number Slip / Test Form for Scholarship test.
- Do not copy or look at your neighbor's exams. This is cheating.
- In case of query raise your hand, examiner / invigilator will come to your seat to address your problem.

**BEST OF LUCK!**