

**USWA COLLEGE ISLAMABAD**  
**Syllabus of English for Entry Test Class 9<sup>th</sup>**

**01. Composition:**

(a) Descriptive/Argumentative Essay Writing.

(b) Personal Letters/School Applications

**02. Comprehension:** Questions based on the unseen paragraph

**03. Grammar:** Parts of Speech, Type of Sentences, Type of Phrases, Type of Clauses, Tenses, Punctuation, Active/passive, Direct/Indirect

**04.** Basic Figures of Speech (Simile, Metaphor, Personification, Apostrophe, Alliteration, Hyperbole, Antithesis, Epigram, Irony, Pun)

**05.** Vocabulary: Singular & Plural, Gender, Synonymous & Antonymous Spellings, Simple Idioms, Popular Proverbs

**06. Translation: (Short Paragraphs)** English to Urdu, Urdu to English.

**Paper Pattern for Class 9<sup>th</sup>**

Essay (08 Marks)	Letter/Application	(06 Marks)
Comprehension	(08 Marks)	Grammar (20 Marks)
Figures of Speech (04 Marks)	Vocabulary	(04 Marks)
Translation into Urdu	(05 Marks)	Translation into English (05 Marks)

# USWA COLLEGE ISLAMABAD

## Syllabus of Mathematics for Entry Test Class 9<sup>th</sup>

The students should know

- **Rational Number:** Recognize the order of operation and use it to solve mathematical expressions involving whole numbers, decimals fractions and integers.
- **Square Root:** Finding square root of natural numbers, common fractions and decimal fractions by factorization and division method. Also word problems on square root.
- Solve word problems on square root.
- **Ratio, Rate and Proportion:** Solve word problems related to real life situation involving direct, inverse proportion, distance, time and average speed.
- **Financial Arithmetic:** Solve real life problems involving, profit, loss, profit %, loss %, zakat, ushr, taxes and commission.
- **Sets:** All definitions of set and its types, define and perform operations on sets (Union, Intersection and complements), Venn – Diagram
- **Linear Equations and Algebra:** Algebraic expressions, operation on polynomials, factorization of algebraic expression using algebraic identities and making groups, polynomials and its types, number patterns and sequence, solution of simultaneous equations by various methods, plot graphs of a linear equation in two variables.
- **Geometry:** Calculate unknown values in triangles and quadrilaterals, elements and properties of circle, construction of triangles with given data, construction of different quadrilaterals
- **Mensuration:** Pythagoras theorem and its application
- **Data Handling:** Frequency, class mark, class intervals, construction of frequency distribution, histogram, frequency polygon, calculate range, variance and standard deviation.
- **Probability:** Definition of probability and how to find probability.

### **Reference Book :**

**National Book Foundation for Class 8<sup>th</sup>**

### **Paper Pattern for Class 9<sup>th</sup>**

Multiple Choice Questions (MCQs)	10 Marks
Short Questions (6 Questions of 5 marks each)	30 Marks
Long Question (2 Questions of 10 marks each)	20 Marks
Total Marks:	60 Marks

اُسوہ کالج، اسلام آباد

سلیبس اُردو (انٹری ٹیسٹ برائے جماعت نہم)

سلیبس اُردو

☆ حصہ قواعد و اصطلاحات (صرف و نحو)

- 1- الفاظ و معانی / الفاظ و محاورات کا جملوں میں استعمال / ضرب الامثال / تفہیم عبارات و اشعار
- 2- اسم معرفہ کی اقسام / اسم نکرہ کی اقسام / فعل کی اقسام / مرکب ناقص کی اقسام / تشبیہ / استعارہ / واحد، جمع / تذکیر و تانیث / متضاد الفاظ / مترادف الفاظ / مطابقت کے اصول: غلط درست جملے / کثیر الانتخابی سوالات / درست اعراب کی نشاندہی / کالم ملانا
- 3- مضمون (کم از کم پندرہ سطریں)
- 4- خط / درخواست
- 5- کہانی / مکالمہ

مجوزہ کتب: 1- درسی کتب جماعت ہشتم / نہم 2 - قواعد و انشاء (پنجاب ٹیکسٹ بک بورڈ / نیشنل بک فاؤنڈیشن)

نمبروں کی تقسیم برائے جماعت نہم۔ کل نمبر 50

کثیر الانتخابی سوالات (معروضی)	(05 نمبر)
قواعد و اصطلاحات (علم بیان، صرف و نحو)	(10 نمبر)
تذکیر و تانیث / واحد جمع / الفاظ۔ متضاد / مترادفات	(05 نمبر)
سابقہ، لاحقہ / اعراب لگانا	(05 نمبر)
جملوں کی درستی / غلط، درست جملے	(05 نمبر)
خط / درخواست	(05 نمبر)
کہانی / مکالمہ	(05 نمبر)
مضمون نویسی	(10 نمبر)

## **Syllabus of Science for Entry Test Class 9<sup>th</sup>**

### **Ecology**

Oxygen cycle, carbon cycle, global warming, interactions in ecosystem, symbiosis, flow of energy in an ecosystem, changes in an ecosystem and its effects.

### **Human Nervous System**

Neuron, parts of human nervous system, peripheral nervous system, voluntary and involuntary actions, reflex action, reflex arc

### **Variations, Heredity and Cell divisions**

Genetics, variation, adaptation, chromosomes and DNA, cell division, mitosis and meiosis

### **Periodic Table**

Periods, groups, classification of element in groups, metals, non-metals, properties of metals and non-metals

### **Chemical Reaction and Bonding**

Chemical reactions, chemical equation and balancing, law of conservation of mass, types of chemical reaction, energy and chemical reaction, chemical bonding and its types

### **Acids, Bases and Salts**

Acids, types of acids, bases, salts their properties and uses, neutralization reaction, pH scale

### **Force and Pressure**

Multiple forces, net force, pressure, buoyancy, hydraulic elevator, liquid pressure, atmospheric pressure.

### **Reflection and Refraction of light**

Properties of light, reflection and refraction of light, speed of light, dispersion, ray model of light, image formed in plane and spherical mirrors, colours

### **Electricity and Magnetisms**

Electric current, voltage, electric resistance, electrical power, electric safety devices, electromagnets, applications of electromagnets

### **Reference Book :**

**National Book Foundation for Class 8<sup>th</sup>**

### **Paper Pattern for Class 9<sup>th</sup>**

Multiple Choice Questions (MCQs)	10 Marks
Short Questions (7 Questions and 2 marks each)	14 Marks
Long Question (1 Question of 6 marks)	06 Marks
Total Marks:	30 Marks