

Syllabus for Admission in 10th Class(26-27)

Subject	Written
English	<ul style="list-style-type: none"> ➤ Comprehension ➤ Letter Writing ➤ Tenses ➤ Notice Writing ➤ Message Writing ➤ Dialogue Writing ➤ Letter Writing ➤ Poetic devices ➤ Modals ➤ Change the speech ➤ Notice Writing
Science	<p style="text-align: center;">(Physics)</p> <ul style="list-style-type: none"> ➤ Motion : Distance and displacement, uniform and non-uniform motion along a straight line, speed, velocity and acceleration, equations of motion by graphical method. numerical on equation of motion ➤ Force and Laws of Motion : Force, inertia and its type, Newton’s laws of motion, linear momentum, conservation of linear momentum. ➤ Gravitation : Gravity and gravitation, universal law of gravitation and its importance, value of G and g and its units, Acceleration due to gravity, relationship between g and G, mass and weight ➤ Sound : Sound and its propagation, necessity of material medium for sound propagation, speed of sound, echo, range of sound in humans, infrasonic and ultrasonic sounds, sonar, structure of human ear (auditory aspect only) <p style="text-align: center;">(Chemistry)</p> <ul style="list-style-type: none"> ➤ Is matter Around us Pure : Pure substances & its type, Mixture & its type, Separation techniques ➤ Matter in our Surrounding : Characteristics of particles, states of matter, properties of solid, liquid and gas, evaporation. Factors effecting evaporation. ➤ Atoms and Molecules : Law of chemical combination, Law of conservation of mass, Law of constant proportion, numerical on laws of chemical combination , Dalton theory. Atom, atomic mass, molecule, ions, polyatomic, chemical formulae, molecular mass, mole concept. ➤ Structure of Atom : Charged particles of (electrons and protons) Thomson model and its drawbacks. Rutherford model and its drawbacks, Bohr’s model of atom. Distribution of electrons in various electronic configuration orbits (shells), concept of valency, Atomic number and mass number, Isotopes and Isobars <p style="text-align: center;">(Biology)</p> <ul style="list-style-type: none"> ➤ Fundamental unit of Life : Structural Organization of cell. Plasma membrane its relationship with isotonic, hypotonic and hypertonic solution. ➤ Osmosis : Cell Wall – Plasmolysis and deplasmolysis ➤ Nucleus : Prokaryotic and Eukaryotic Cells, Cytoplasm, Cells Oranelles and their functions.– Endoplasmic Reticulum, Golgi apparatus, Lysosomes, mitochondria, Plastids and vacuoles. ➤ Tissue : Types of plants tissue , Meristematic, Permanent tissue , their types and functions. Animal tissues, Epithelial tissue, Connective tissue, muscular tissue and nervous tissue and functions. ➤ Why do we fall ill: Health and its failure. Disease and causes - Acute and chronic disease, causes of Diseases Infectious and non-infectious diseases. Infectious diseases - Agents, Means of spread, Principles of treatment and Prevention.
S.S7	<p style="text-align: center;">History</p> <ul style="list-style-type: none"> ➤ Chapter Nazism and rise of Hitler ➤ Problem faced by Weimar republic, Why Nazi became popular in Germany , Treaty of Versailles, Causes of rise of Nazism, What were the effects of the first world war on Germany. Nazi's World view.

	<p style="text-align: center;">Geography</p> <ul style="list-style-type: none"> ➤ Chapter Geography of Jammu , Kashmir and Ladakh ➤ Major physical divisions of Jammu Kashmir and Ladakh ➤ Main rivers and tributaries of Jammu. ➤ Plateau of Ladakh ➤ Alluvial soil (Old and New) <p style="text-align: center;">Political Science</p> <ul style="list-style-type: none"> ➤ What is Democracy, Characteristics of democracy, types of democracy, merits of democracy, demerits of democracy.
Math	<ul style="list-style-type: none"> ➤ Number System : Natural Numbers, Whole Numbers, Integers, Rational Numbers, Irrational Numbers, Real numbers, Non terminating, Terminating decimals expansion, Square roots of Real Numbers, Rational numbers as Exponents, Laws of Exponents for Rational Exponents ➤ Polynomials : Linear Quadratic, Cubic Polynomials, Degree and Coefficient of Polynomials, Zeros of Polynomial, Remainder Theorem, Factor Theorem, Algebraic Identities, Linear Equation in one variable ➤ Lines and Angles : Exterior Angle Theorem, Linear pair Axiom, theorem based lines and Transversal ➤ Triangles : Triangles, Congruence of Triangles, SAS, RHS, SSS, ASA, AAS Rules ➤ Quadrilaterals : Properties of Quadrilaterals (Trapezium, Rhombus, Square Rect.) Theorems based on gms Mid-point Theorem, Converse. ➤ Areas of Parallelogram and Triangles : Area of gm, Area of Δ gms related theorem, Mid-point theorem ➤ Circles : Theorem based on Circles, Diameter, Chord, Arc, Segment, Sector of the Circle ➤ Heron formula : Area of equation Δ, Heron's formula. ➤ Surface area & volumes : Surface area (Cuboid, Cube) Volume of (Cuboid, Cube, Cylinder) Cured surface area (Cylinder, Sphere, Hemisphere based question. ➤ Statistics : Mean, Mode, Median Concept.
Hindi	व्याकरण - अलंकार , पदबंध , अनेकार्थक शब्द , पर्यायवाची शब्द पत्र , प्रार्थना-पत्र , निबंध
Urdu	مضامین ، درخواست : شکایت نامہ ، دعوت نامہ ، اجازت نامہ ، خطوط : کاروباری ، ذاتی ، دفتری، فعل کی اقسام ، متضاد الفاظ ، واحد - جمع ، جملوں میں استعمال، مونث - مذکر ، جملوں میں استعمال ، نظم ، غزل پر نوٹ
G.K.	<ul style="list-style-type: none"> ➤ UNO, Continents, Covid based questions, Abbreviations, solar system, Tokiyo Olympics ➤ State and capitals, Lieutenant Governor of UT and capitals of J&K and Ladakh. ➤ Prime Minister, Finance Minister, Railway Minister, Home Minster, External Affairs minister. ➤ Invention and Discoveries. ➤ Lok Sabha and Rajya Sabha. ➤ General awareness about Jammu and Kashmir.

It also includes Viva-Voice Test Note :

- Student who will qualify the exam will be called for an interview along with their parents / guardian.
- It is mandatory for student and parents to read and follow the rules and regulations of SP Higher Secondary School for continuing studies in School.
- Handwriting, presentation, body language will also be considered.