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Military College Murree

Upper Topa, Murree Hills

Character, Courage and Commitment

SYLLABUS CLASS XI

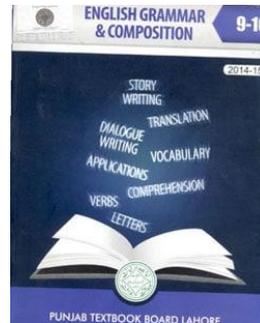
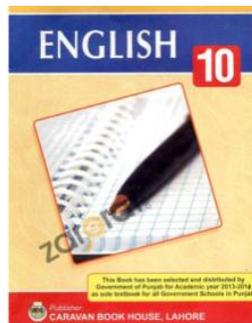
MILITARY COLLEGE MURREE ENTRANCE EXAM XI YEAR SYLLAUBUS

1. **English Syllabus:** Following contents comprise the syllabus:-

- | | | |
|---|----------------------|------------------------------|
| ➤ Hazrat Muhammad (SAW)
an embodiment of justice | ➤ Chinese New Year | ➤ Try Again |
| ➤ First Aid | ➤ The Rain | ➤ Television vs Newspapers |
| ➤ Little by Little One walks Far! | ➤ Peace | ➤ Selecting the Right Career |
| ➤ A World Without Books | ➤ Great Expectations | |

2. **Recommended Books**

- a. English 10 : Caravan Book House, Lahore
 b. English Grammar & Composition 9-10: Punjab Textbook Board, Lahore



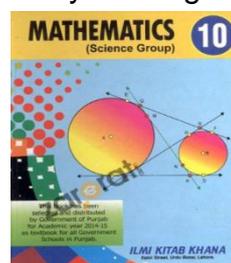
3. **Mathematics Syllabus:** Following contents comprise the syllabus:-

	Title of Chapter	Chapter
a.	Quadratic Equations	1
b.	Theory Of Quadratic Equations	2
c.	Variations	3
d.	Partial Fractions	4
e.	Sets And Functions	5
f.	Basic Statistics	6
g.	Introduction To Trigonometry	7
h.	Theorems: Following statements of theorems comprise the syllabus:	8-11
	STATEMENTS	Chapter
(1)	In any triangle ,the square on the side opposite to acute angle is equal to sum of the squares on the side containing that acute angle diminished by twice the rectangle contain by one of those sides and the projection on it of the other.	8
(2)	In an obtuse angled triangle ,the square on the side opposite to the obtuse angle is equal to the sum of the square on the side containing the obtuse angle together with twice the rectangle contained by one of the sides and the projection on it of the other	9
(3)	In any triangle, the sum of the squares on any two sides is equal to twice the square on half the third side together with	9

- twice the square on the median which bisects the third side.
- (4) One and only one circle can pass through three non collinear points 9
- (5) A straight line, drawn from the center of a circle to bisect a chord (which is not a diameter) is perpendicular to the chord 9
- (6) Perpendicular from the center of a circle on a chord bisects it. 9
- (7) If two chords of a circle are congruent then they will be equidistant from the center 9
- (8) Two chords of a circle equidistant from the center are congruent 10
- (9) If a line is drawn perpendicular to a radial segment of a circle at its outer end point it is tangent to the circle at the point 10
- (10) The tangent to a circle and the radial segment joining the point of contact and the center are perpendicular to each other. 10
- (11) Two tangents drawn to a circle from a point outside it are equal in length. 10
- (12) If two circles touch externally then the distance between their centers is equal to the sum of their radii. 11
- (13) If two circles touch each other internally, then the point of contact lies on the line segment through their centers and distance between their centers is equal to the difference of their radii 11
- (14) If two arcs of a circle (or of congruent circles) are congruent then the corresponding chords are equal. 11
- (15) If two chords of a circle (or of congruent circles) are equal, then their corresponding arcs (minor, major or semi-circle) are congruent in equal circles or in the same circle, if two chords are equal they cut off equal arcs. 11
- (16) Equal chords of a circle (or of congruent circles) subtend equal angles at the center (at the corresponding centers). 11
- (17) If the angles subtended by two chords of a circle (or congruent circle) at the center (corresponding centers) are equal, the chords are equal. 11

4. **Recommended Book.** The question papers will be syllabus oriented. However, the following book is recommended for reference and supplementary reading: -

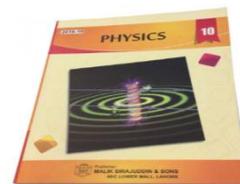
Mathematics 10 (Science Group)
Ilmi Kitab Khana, Kabir Street
Urdu Bazar, Lahore



5. **Physics Syllabus.** Following contents comprise the syllabus:-

- | | | | |
|------------------------------------|----------------------|----------------------------|--|
| ➤ Simple Harmonic Motion and Waves | | | |
| ➤ Sound | ➤ Geometrical Optics | ➤ Electrostatics | |
| ➤ Current Electricity | ➤ Electromagnetism | ➤ Introductory Electronics | |

6. **Physics Recommended Book.** The question papers will be syllabus oriented. However, the following book is recommended for reference and supplementary reading: **Physics 10**



7. **Syllabus Chemistry.** Following contents comprise the syllabus:-

- Chemical Equilibrium
- Acids, Bases, and Salts
- Organic Chemistry
- Hydrocarbons
- Biochemistry
- Environmental Chemistry I: The Atmosphere
- Environmental Chemistry II: Water

8. **Chemistry Recommended Book.** The question papers will be syllabus oriented. However, the following book is recommended for reference and supplementary reading:

Chemistry 10
Carvan Book House, lahore.

