

**THE AIR FORCE SCHOOL**  
**ES –II SYLLABUS – 2020-21**  
**SECTION – D**

**SUBJECT – ENGLISH**

<b>S. No.</b>	<b>Name of the Topic</b>	<b>Weightage</b>	<b>Topic which will not be assessed</b>
1.	<b>Writing Skills</b> Letter of Complaint (Service)	MCQ (2)+ Subjective (1) = <b>8 Marks</b>	-----
2.	<b>Literature</b> Voice of the Rain Discovering Tut Landscape of the soul The Address	MCQ (8)+Subjective (4) = <b>22 MARKS</b>	-----

**SUBJECT – PHYSICS**

<b>S. No.</b>	<b>Name of the Topic/Chapter</b>	<b>Weightage</b>	<b>Topic which will not be assessed</b>
1.	Chapter–5: Laws of Motion	9	Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion
2.	Chapter–6: Work, Energy and Power	12	
3.	Chapter–7: System of Particles and Rotational Motion	9	Statement of parallel and perpendicular axes theorems and their applications.

**SUBJECT – CHEMISTRY**

S. No.	Name of the Topic	Weightage	Topic which will not be assessed
1.	Chemical bonding and molecular structure	15 Marks	Nil
2.	States of matter	10 Marks	liquefaction of gases, critical temperature, kinetic energy and molecular speeds (elementary idea), Liquid State- vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations)
3.	Thermodynamics till 6.2.2 (a) Enthalpy	5 Marks	Nil

**SUBJECT – MATHS**

S. No.	Name of the Topic	Weightage	Topic which will not be assessed
1.	<b>Chapter – 7</b> Permutations and Combinations	11 Marks	Derivation of formulae for ${}^n P_r$ and ${}^n C_r$
2.	<b>Chapter – 9</b> Sequences and Series	10 Marks	Formulae for the following special sums $\sum k, \sum k^2, \sum k^3$
3.	<b>Chapter – 11</b> Conic Sections	9 Marks	A point, a straight line and a pair of intersecting lines as a degenerated case of a conic section

**SUBJECT – COMPUTER SCIENCE**

S. No.	Name of the Topic	Weightage	Topic which will not be assessed
1.	Flow of Control	10	NA
2.	String Manipulation	10	NA
3.	List Manipulation	10	NA

## **SUBJECT – IP**

<b>S. No.</b>	<b>Name of the Topic</b>	<b>Weightage</b>	<b>Topic which will not be assessed</b>
1.	Unit 2 Introduction to Python		
a.	Flowcharts	2 Marks	-
b.	Conditional Statements	10 Marks	-
c.	Iterative/Looping Statements	10 Marks	while loop
d.	List ( Creation , Access, Slicing and Operations )	8 Marks	-