THE AIR FORCE SCHOOL

ES – II SYLLABUS – 2020-21

SECTION – B

SUBJECT – ENGLISH

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

SUBJECT – PHYSICS

S. No.	Name of the Topic/Chapter	Weightage	Topic which will not be assessed
1.	Chapter–5: Laws of Motion	9 Marks	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 Marks	
3.	Chapter–7: System of Particles and Rotational Motion	9 Marks	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 – BIOLOGY

S. No.	Name of the Topic	Weightage	Topic which will not be assessed
1.	Chapter 6 – Anatomy of flowering plants	8 Marks	Anatomy and functions of different tissues and tissue systems in dicots and monocots. Secondary growth.
2.	Chapter 7 – Structural organisation in animals	10 Marks	Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach, earthworm and frog)
3.	Chapter 8 – Cell: the unit of life	12 Marks	Nil

SUBJECT – MATHS

S. No.	Name of the Topic	Weightage	Topic which will not be assessed
1.	**Chapter – 7** Permutations and Combinations	11 Marks	Derivation of formulae for ^nP_r and ^nC_r
2.	**Chapter – 9** Sequences and Series	10 Marks	Formulae for the following special sums $\sum k, \sum k^2, \sum k^3$

| S. No. | | Chapter – 11 Conic Sections | 9 Marks | A point, a straight line and a pair of intersecting lines as a degenerated case of a conic section |
| 3. | | | | |

SUBJECT – IP

S. No.	Name of the Topic	Weightage	Topic which will not be assessed
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	-

SUBJECT-HOME SCIENCE – REVISED

S. No.	Name of the Topic	Weightage	Topic which will not be assessed
1.	Ch.- Fabric Around us	10 Marks	Nil
2.	Ch-Media and Communication Technology Unit	08 Marks	Nil
3.	Unit III: Understating family, community and society Ch. - Concerns and needs in diverse contexts: a. Nutrition, Health and Hygiene b. Resources Availability and Management	02 Marks	Relationships and interactions with 'Significant Others'
4.	Unit IV: Childhood Ch.-Survival, Growth and Development	10 Marks	Care and Education

SUBJECT– PSYCHOLOGY

S. No.	Name of the Topic	Weightage	Topic which will not be assessed
1.	Human Development	30 Marks	-----------------------------------