

THE AIR FORCE SCHOOL
MOCK PRE-BOARD SYLLABUS – 2020-21
REVISED

SECTION – C
SUBJECT – ENGLISH

S. No.	Name of the Topic	Weightage	Topic which will not be assessed
1.	<u>OBJECTIVE SECTION</u> a) Reading Comprehension b) Literature (All chapters listed under Subjective section)	25 Marks	Note Making and Summary Writing Deletions (All literature topics mentioned under deletions in Subjective Section)
2.	<u>SUBJECTIVE SECTION</u> a) Writing Skills <ul style="list-style-type: none"> • Notice • Advertisements (Classified and Display) • Invitations & Replies • Letter to Editor • Application for Job with C.V • Article • Report b)Literature: Flamingo: <ul style="list-style-type: none"> ➤ The Last Lesson ➤ Lost Spring ➤ Deep Water ➤ The Rattrap ➤ Indigo ➤ My Mother at Sixty-Six ➤ An Elementary School Classroom in a Slum ➤ Keeping Quiet ➤ A Thing of Beauty ➤ Aunt Jennifer's Tigers Vistas: <ul style="list-style-type: none"> ➤ The Third Level ➤ The Enemy ➤ Should Wizard Hit Mommy ➤ On the Face of It ➤ Evans Tries an O-Level 	55 Marks	Writing Tasks <ul style="list-style-type: none"> • Poster • Letter Placing an Order, cancelling an Order • Letter of Complaint • Letter of Enquiry-asking and giving information. • Debate • Speech Literature Flamingo <ul style="list-style-type: none"> ➤ Poet and Pancakes ➤ The Interview ➤ Going Places ➤ A Roadside Stand Vistas <ul style="list-style-type: none"> ➤ The Tiger King ➤ Journey to the End of the Earth ➤ Memories of Childhood

SUBJECT – MATHEMATICS

S. No.	Name of the Topic	Weightage	Topic which will not be assessed
01	<p style="text-align: center;">UNIT I</p> <p>Chapter – 1 Relations and Functions</p> <p>Chapter – 2 Inverse Trigonometric functions</p>	08 Marks	<p>1. Composite function 2. Inverse of a function 3. Binary operations</p> <p>1. Graphs 2. Elementary properties</p>
02	<p style="text-align: center;">UNIT II</p> <p>Chapter – 3 Matrices Chapter – 4 Determinants</p>	10 Marks	<p>Concept of elementary row and column operations</p> <p>1. Properties of Determinants 2. Consistency, inconsistency and number of solutions of system of linear equations</p>
03	<p style="text-align: center;">UNIT III</p> <p>Chapter – 5 Continuity and Differentiability</p> <p>Chapter – 6 Applications of Derivatives</p> <p>Chapter – 7: Integrals</p> <p>Chapter – 8 Application of Integrals</p> <p>Chapter – 9 Differential Equation</p>	35 Marks	<p>Rolle's and Mean value Theorems</p> <p>1. Rate of change 2. Use of derivatives in approximation</p> <p>1. Integrals of the types $\int \sqrt{ax^2 + bx + c} dx$, $\int (ax + b)\sqrt{ax^2 + bx + c} dx$ 2. Definite integrals as a limit of a sum</p> <p>Area between any of the two curves</p> <p>1. Formation of differential equation whose general solution is given 2. Solution of homogeneous differential equation of the type $\frac{dy}{dx} = f\left(\frac{x}{y}\right)$ 3. Solution of linear differential equation of the type $\frac{dx}{dy} + px = q$</p>

04	<p style="text-align: center;">UNIT IV</p> <p>Chapter – 10: Vectors</p> <p>Chapter – 11 Three dimensional geometry</p>	14 Marks	<p>Scalar triple product of vectors</p> <p>Angle between</p> <ol style="list-style-type: none"> Two lines Two planes A line and a plane
05	<p style="text-align: center;">UNIT V</p> <p>Chapter – 12: Linear Programming</p>	05 Marks	<ol style="list-style-type: none"> Mathematical Formulation of Linear Programming Problems Unbounded feasible regions
06	<p style="text-align: center;">UNIT VI</p> <p>Chapter -13: Probability</p>	08 Marks	<ol style="list-style-type: none"> mean and variance of random variable. Binomial distribution

SUBJECT – ECONOMICS

SI No.	Name of the Chapter	Weightage	Topic which will not be assessed
SECTION –A: MACRO ECONOMICS			
1.	UNIT – 1: National income accounting	15 Marks	-
2.	UNIT -2: Money And Banking	03 Marks	Credit controlling instrument of RBR, like CRR, SLR etc.
3.	UNIT -3: Determination of Income and Employment	15 Marks	-
4.	UNIT -4: Government budget and the economy	05 Marks	Deficit deleted.
5.	UNIT -5: Balance of payment	02 Marks	Flexible rate deleted
SECTION – B: INDIAN ECONOMIC DEVELOPMENT			
6.	UNIT –I: Chapter: 1, 2 and 3	15 Marks	-
7.	UNIT -2: Chapter: 4, 5, 6, 7, 8 and 9	20 Marks	<ul style="list-style-type: none"> Education sector in India. Organic farming.
8.	UNIT -3: Chapter 10	05 Marks	-

SUBJECT – BUSINESS STUDIES

S. No.	Name of the Chapter	Weightage	Topic which will not be assessed
Part-A:	Principles and Functions of Management	16 Marks	Unit 3: Business Environment 1. Demonetization – concept 2. Impact of Government policy changes on business with special reference to liberalization, privatization and globalization in India
1.	Nature and significance of Management		Unit 4: Planning 1. Single use and standing plans. Objectives, Strategy, Policy, Procedure, method rule, budget and programme Unit 5:Organising 1. Topics Deleted 2. Formal and informal organisation – concept Unit 6: Staffing 1. Staffing as a part of Human Resource Management concept Unit 7: Directing 1. Barriers to effective communication, how to overcome the barriers. Unit 8: Controlling 1. Relationship between planning and controlling
2.	Principles of Management		
3.	Business Environment		
4.	Planning	14 Marks	
5.	Organising		
6.	Staffing	20 Marks	
7.	Directing		
8.	Controlling		
Part-B:	Business Finance and Marketing		Unit 11: Marketing 1. Physical Distribution – Components and channels of distribution.
9.	Financial Management	15 Marks	Unit 12: Consumer Protection 1. Consumer Protection: Importance 2. Consumer awareness – Role of consumer organizations and Non-Governmental Organizations (NGOs)
10.	Financial Markets		
11.	Marketing Management	15 Marks	
12.	Consumer Protection		

SUBJECT – ACCOUNTANCY

S. No.	Name of the Chapter	Weightage	Topic which will not be assessed
Part A: Accounting for Not-for-Profit Organizations, Partnership Firms and Companies			
Unit 1: Accounting for Not-for-Profit Organizations		10 Marks	-
Unit 2: Accounting for Partnership Firms		30 Marks	-
1.	Accounting for Partnership Firms- Fundamentals		-
2.	Goodwill		-

3.	Change in Profit sharing ratio		-
4.	Admission of a Partner		adjustment of capital accounts and preparation of balance sheet.
5.	Retirement of a Partner		adjustment of capital accounts. Preparation of loan account of the retiring partner.
6	Death of a Partner		Preparation of deceased partner's capital account and his executor's account.
Unit 3: Accounting for Companies		20 Marks	Redemption of Debentures
Part B:Analysis of Financial Statements			
Unit 4: Analysis of Financial Statements		12 Marks	-
Unit 5: Cash Flow Statement		08 Marks	-

SUBJECT – IP

S. No.	Name of the Topic	Weightage	Topic which will not be assessed
1.	Unit-1 Data Handling using Pandas and Data Visualization	25 Marks	Unit-1 Data handling using Pandas – II Descriptive Statistics: quartile, Standard deviation, variance. Data Frame operations: Aggregation, group by, Sorting, Deleting and Renaming Index, Pivoting. Handling missing values – dropping and filling. Importing/Exporting Data between MySQL database and Pandas. Data Visualization, pie chart, frequency polygon, box plot and scatter plot. : color, style (dashed, dotted), width;
2	Unit 2: Database Query using SQL	25 Marks	Joining, Merging and Concatenation.
3.	Unit 3 Introduction to Computer Networks	10 Marks	-
4.	Unit 4 Societal Impacts	10 Marks	-

SUBJECT – HOME SCIENCE

S. No.	Name of the Unit	Weightage	Non Assessed topic/chapter
1.	Work, Livelihood and Career	05 Marks	Nil
2.	Nutrition, Food Science and Technology	23 Marks	Catering and Food Service Management
3.	Human Development and Family Studies	10 Marks	Special Education and Support Services
4.	Fabric and Apparel	17 Marks	Production and Quality control in the Garment Industry
5.	Resource Management	10 Marks	Human Resource Management
6.	Communication and Extension	05 Marks	Media Management, Design and Production