



# BLM ACADEMY SENIOR SECONDARY SCHOOL

## SESSION 2023-24

### SYLLABUS PRE-BOARD

#### CLASS XII

#### SCIENCE

### ENGLISH

Section A: Reading Skills	Reading Comprehension through Unseen Passage	22
Section B: Creative Writing Skills	Notice, Formal/Informal Invitation and Reply, Letters based on verbal/visual input, to be answered in approximately 120-150 words. Letter types include application for a job with bio data or resume. Letters to the editor (giving suggestions or opinion on issues of public interest). Article/ Report Writing, descriptive and analytical in nature, based on verbal inputs, to be answered in 120-150 words.	18
Section C: Literature	<b>Flamingo:</b> <b>(Prose) –</b> The Last Lesson, Lost Spring, Deep Water, The Rattrap, Indigo Poets and Pancakes, The Interview, Going Places <b>(Poetry)</b> My Mother at Sixty-Six, Keeping Quiet, A Thing of Beauty A Roadside Stand, Aunt Jennifer's Tigers <b>Vistas: Supplementary Reader</b> The Third Level, The Tiger King Journey to the End of the Earth, The Enemy On the Face of it Memories of Childhood :The Cutting of My Long Hair, We Too are Human Beings	40

### MATHEMATICS

Unit 1: Relations And Functions	12
Unit 2: Algebra	06
Unit 3: Calculus	35
Unit 4: Vectors And Three-Dimensional Geometry	14
Unit 5: Linear Programming	5
Unit 6: Probability	8

### PHYSICS

<b>Unit 1: Electrostatics</b>	Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential And Capacitance	16
<b>Unit 2: Current Electricity</b>	Chapter–3: Current Electricity	
<b>Unit 3: Magnetic Effects Of Current And Magnetism</b>	Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism And Matter	17
<b>Unit 4: Electromagnetic Induction And Alternating Currents</b>	Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current	
<b>Unit 5: Electromagnetic Waves</b>	Chapter–8: Electromagnetic Waves	18

<b>Unit 6: Optics</b>	Chapter–9: Ray Optics and Optical Instruments Chapter–10: Wave Optics	
<b>Unit 7: Dual Nature Of Radiation And Matter</b>	Chapter 11: Dual Nature Of Radiation And Matter	12
<b>Unit 8: Atoms And Nuclei</b>	Chapter–12: Atoms Chapter–13: Nuclei	
<b>Unit 9: Electronic Devices</b>	Chapter–14: Semiconductor Electronics: Materials, Devices And Simple Circuits	7

## **CHEMISTRY**

Unit II: Solutions	7
Unit III: Electrochemistry	9
Unit IV: Chemical Kinetics	7
Unit VIII: D And F Block Elements	7
Unit IX: Coordination Compounds	7
Unit X: Haloalkanes And Haloarenes	6
Unit XI: Alcohols, Phenols And Ethers	6
Unit XII: Aldehydes, Ketones And Carboxylic Acids	8
Unit XIII: Amines	6
Unit XIV: Biomolecules	7

## **BIOLOGY**

Unit VI: Reproduction	16
Unit VII: Genetics And Evolution	20
Unit VIII: Biology And Human Welfare	12
Unit IX: Biotechnology And Its Applications	12
Unit X: Ecology And Environment	10

## **OPTIONAL:**

### **COMPUTER SCIENCE:**

#### **Weightage—10 marks for Chapter1 and 2**

Chapter-1 Python Revision Tour 1, Chapter-2 Python Revision Tour-2

#### **Weightage—30 marks for Chapter3,4,5 and 9**

Chapter-3 Working with Functions, Chapter 4: Using python Libraries

Chapter 5: File Handling, Chapter 9: Stacks and Queues using Lists

#### **Weightage—10 marks for Chapters 10 and 11**

Chapter 10-11: Communication and Network Concepts

#### **Weightage—20 marks for Chapter12,13,14,15 and 16**

Chapter 12: Relational Database

Chapter 13 Simple Queries in SQL (Relational Database, Simple Queries)

Chapter 14: Table Creation and Data Manipulation Commands

Chapter 15 Grouping, Reorder, Joins in SQL, Chapter 16: Interface Python with MySQL

**ARTIFICIAL INTELLIGENCE:****Subject Specific Skills (40 Marks)**

- Unit 1: Capstone Project (10)  
 Unit 2: Model Life Cycle (10)  
 Unit 3: Story Telling Through Data (20)

**Employability Skills (10 Marks)**

- Unit 1: Communication Skills (2)  
 Unit 2: Self-Management Skills (2)  
 Unit 3: ICT Skills (2)  
 Unit 4: Entrepreneurial Skills (2)  
 Unit 5: Green Skills (2)

**PSYCHOLOGY:**

- |   |      |
|---|------|
| 1. Variations in Psychological Attributes | (9)  |
| 2. Self and Personality                   | (13) |
| 3. Meeting Life Challenges                | (5)  |
| 4. Psychological Disorders                | (15) |
| 5. Therapeutic Approaches                 | (9)  |
| 6. Attitude and Social Cognition          | (14) |
| 7. Social Influence and Group Processes   | (5)  |

**YOGA:**

- |  |   |
|--|---|
| 1. Introduction of Yogic texts Hath Pradipika, Gherand Samhita, Geeta                        | 6 |
| 2. Body System: Circulatory, Digestive, Respiratory, Excretory                               | 8 |
| 3. Sattvic, Rajasic & Tamasic diet   | 4 |
| 4. Classification Of Asana   | 6 |
| 5. Shatchakras, Shatkarma, Neti, Tratak Panchmahabhootas, Panchkosha, Significance of upvaas | 8 |
| 6. Yogic practice to control Obesity, Hypertension & Stress                                  | 6 |
| 7. Types of Pranayama  | 4 |
| 8. Dincharya & Ritucharya  | 2 |
| 9. Career opportunities in yoga  | 4 |
| 10. Characteristics of entrepreneurship.   | 2 |

**PAINTING:**

- |  |    |
|--|----|
| 1. The Rajasthani & Pahari Schools of Miniature Painting             | 10 |
| 2. The Mughal & Deccan Schools of Miniature Painting                 | 10 |
| 3. The Bengal School of Painting and the Modern Trends in Indian Art | 10 |

**PHYSICAL EDUCATION:**

UNIT NO.	UNIT NAME	THE WEIGHTAGE (MARKS) ALLOTTED
UNIT 1	Management of Sporting Events	05 + 04 <b>b*</b>
UNIT 2	Children and Women in Sports	07
UNIT 3	Yoga as Preventive measure for Lifestyle Disease	06+01 <b>b*</b>
UNIT 4	Physical Education & Sports for (CWSN)	04+04 <b>b*</b>
UNIT 5	Sports & Nutrition	07
UNIT 6	Test and Measurement in Sports	08
UNIT 7	Physiology & Injuries in Sport	04+04 <b>b*</b>
UNIT 8	Biomechanics and Sports	10
UNIT 9	Psychology and Sports	07
UNIT 10	Training in Sports	09
<b>TOTAL</b>	<b>Theory 10 + Practical 3</b>	<b>Theory 70 + Practical 30 = 100</b>

Note: **b\*** are the Concept based questions like Tactile diagram/data interpretation

## **MUSIC VOCAL**

### **Unit 1 – (6 Marks)**

1.1 **Brief study of the following:** Alankar, Kan, Meend, Khatka, Murki, Gamak

1.2 **Brief study of the following:** Gram, Murchhana, Alap, Tana

### **Unit 2 – (6 Marks)**

2.1 **Historical development of Time Theory of Ragas**

### **Unit 3 – (6 Marks)**

3.1 **Detailed study of the following:** Sangeet Ratnakar, Sangeet Parijat

3.2 **Life sketch and contribution of the following musicians:** Faiyaz Khan, Bade Ghulam Ali Khan  
Krishna Rao, Shankar Pandit

### **Unit 4 – (6 Marks)**

4.1 **Description of prescribed Talas along with Tala notation:**

Thah, Dugun, Tigun, Chaugun, Jhaptala, Rupak, Dhamar

4.2 **Tuning of Tanpura**

### **Unit 5 – (6 Marks)**

5.1 **Critical study of prescribed Ragas along with recognizing Ragas from phrases of Swaras and elaborating them (excluding Raga Shuddha Sarang):**

Bhairav, Bageshri, Malkauns

5.2 **Writing in Notation the compositions of prescribed Ragas:**

Bhairav, Bageshri, Malkauns

## **MUSIC INSTRUMENTAL**

### **Unit 1 – (6 Marks)**

1.1 **Brief study of the following:** Gram, Murchhana, Alankar, Alap, Tana

1.2 **Brief study of the following:** Gamak, Meend, Kan, Krintan, Zamzama, Ghaseet, Sut

### **Unit 2 – (6 Marks)**

2.1 **Historical development of Time Theory of Ragas**

### **Unit 3 – (6 Marks)**

3.1 **Detailed study of the following:** Sangeet, Ratnakar, Sangeet, Parijat

3.2 **Life sketch and contribution of the following musicians:** Inayat Khan, Mushtaq Ali Khan, Alauddin Khan

### **Unit 4 – (6 Marks)**

4.1 **Description of prescribed Talas along with Tala notation:**

Thah,,Dugun,,Tigun,,Chaugun,,Jhaptala, Rupak, Dhamar

4.2 **Tuning of the instrument opted for**

### **Unit 5 – (6 Marks)**

5.1 **Critical study of prescribed Ragas along with recognizing Ragas from phrases of Swaras and elaborating them**

5.2 **Writing in Notation the compositions of prescribed Ragas:** Bhairav, Bageshri, Malkauns



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CLASS XII

COMMERCE

### ENGLISH

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Section C: Literature	<p><b>Flamingo:</b>  <b>(Prose)</b> –            The Last Lesson Lost Spring Deep Water, The Rattrap, Indigo Poets and Pancakes, The Interview, Going Places</p> <p><b>(Poetry)</b>            My Mother at Sixty-Six, Keeping Quiet, A Thing of Beauty A Roadside Stand, Aunt Jennifer's Tigers</p> <p><b>Vistas:</b> Supplementary Reader            The Third Level, The Tiger King            Journey to the End of the Earth, The Enemy            On the Face of It, Memories of Childhood            The Cutting of My Long Hair, We Too are Human Beings</p>	40

### ACCOUNTANCY:

Part A: Accounting for Partnership Firms and Companies (Compulsory For All)	Accounting For Partnership Firms	36
	Accounting For Companies	24
Part B: (I) Financial Statement Analysis	Analysis of Financial Statements Cash Flow Statement	20

### ECONOMICS:

Part A: Introductory Macroeconomics	Unit 1: National Income And Related Aggregates	10
	Unit 2: Money And Banking	6
	Unit 3: Determination Of Income And Employment	12
	Unit 4: Government Budget And The Economy	6
	Unit 5: Balance Of Payments	6
Part B: Indian Economic Development	Unit 6: Development Experience (1947-90) And Economic Reforms Since 1991	12
	Unit 7: Current Challenges Facing Indian Economy	20
	Unit 8: Development Experience Of India – A Comparison With Neighbours	8

**BUSINESS STUDIES:**

<b>Part A: Principles and Functions of Management</b>	
Nature and Significance of Management	6 marks
Principles of Management	7 marks
Business Environment	4 marks
Planning	6 marks
Organising	8 marks
Staffing	7 marks
Directing	8 marks
Controlling	4 marks
<b>Total Weightage</b>	<b>50 marks</b>
<b>Part B: Business Finance and Marketing</b>	
Financial Management	8 marks
Financial Markets	7 marks
Marketing Management	11 marks
Consumer Protection	4 marks
<b>Total Weightage</b>	<b>30 marks</b>

**OPTIONAL:****MATHEMATICS**

Unit 1: Relations And Functions	12
Unit 2: Algebra	06
Unit 3: Calculus	35
Unit 4: Vectors And Three-Dimensional Geometry	14
Unit 5: Linear Programming	5
Unit 6: Probability	8

**PSYCHOLOGY:**

1. Variations in Psychological Attributes (9)
2. Self and Personality (13)
3. Meeting Life Challenges (5)
4. Psychological Disorders (15)
5. Therapeutic Approaches (9)
6. Attitude and Social Cognition (14)
7. Social Influence and Group Processes (5)

**COMPUTER SCIENCE:****Weightage—10 marks for Chapter1 and 2**

Chapter-1 Python Revision Tour 1, Chapter-2 Python Revision Tour-2

**Weightage—30 marks for Chapter3,4,5 and 9**

Chapter-3 Working with Functions, Chapter 4: Using python Libraries

Chapter 5: File Handling, Chapter 9: Stacks and Queues using Lists

**Weightage—10 marks for Chapters 10 and 11**

Chapter 10-11: Communication and Network Concepts

**Weightage—20 marks for Chapter12,13,14,15 and 16**

Chapter 12: Relational Database, Chapter 13 Simple Queries in SQL (Relational Database, Simple Queries)

Chapter 14: Table Creation and Data Manipulation Commands

Chapter 15 Grouping, Reorder, Joins in SQL, Chapter 16: Interface Python with MySQL

**YOGA:**

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|---|---|
| 1. Introduction of Yogic texts Hath Pradipika,Gherand Samhita ,Geeta                        | 6 |
| 2. Body System: Circulatory, Digestive,Respiratory,Excretory                                | 8 |
| 3. Sattvic, Rajasic & Tamasic diet  | 4 |
| 4. Classification of Asana  | 6 |
| 5. Shatchakras, Shatkarma,Neti, Tratak Panchmahabhootas, Panchkosha, Significance of upvaas | 8 |
| 6. Yogic practice to control Obesity, Hypertension & Stress                                 | 6 |
| 7. Types of Pranayama   | 4 |
| 8. Dincharya & Ritucharya   | 2 |
| 9. Career opportunities in yoga   | 4 |
| 10. Characteristics of entrepreneurship.  | 2 |

**PAINTING:**

- |  |    |
|--|----|
| 1. The Rajasthani & Pahari Schools of Miniature Painting             | 10 |
| 2. The Mughal & Deccan Schools of Miniature Painting                 | 10 |
| 3. The Bengal School of Painting and the Modern Trends in Indian Art | 10 |

**PHYSICAL EDUCATION:**

UNIT NO.	UNIT NAME	THE WEIGHTAGE (MARKS) ALLOTTED
UNIT 1	Management of Sporting Events	05 + 04 <b>b*</b>
UNIT 2	Children and Women in Sports	07
UNIT 3	Yoga as Preventive measure for Lifestyle Disease	06+01 <b>b*</b>
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UNIT 5	Sports & Nutrition	07
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UNIT 7	Physiology & Injuries in Sport	04+04 <b>b*</b>
UNIT 8	Biomechanics and Sports	10
UNIT 9	Psychology and Sports	07
UNIT 10	Training in Sports	09
<b>TOTAL</b>	<b>Theory 10 + Practical 3</b>	<b>Theory 70 + Practical 30 = 100</b>

**Note: b\*are the Concept based questions like Tactile diagram/data interpretation**

## **ARTIFICIAL INTELLIGENCE:**

### **Subject Specific Skills (40 Marks)**

- Unit 1: Capstone Project (10)
- Unit 2: Model Life Cycle (10)
- Unit 3: Story Telling Through Data (20)

### **Employability Skills (10 Marks)**

- Unit 1: Communication Skills (2)
- Unit 2: Self-Management Skills (2)
- Unit 3: ICT Skills (2)
- Unit 4: Entrepreneurial Skills (2)
- Unit 5: Green Skills (2)

## **MUSIC VOCAL**

### **Unit 1 – (6 Marks)**

- 1.1 **Brief study of the following:** Alankar, Kan, Meend, Khatka, Murki, Gamak
- 1.2 **Brief study of the following:** Gram, Murchhana, Alap, Tana

### **Unit 2 – (6 Marks)**

- 2.1 **Historical development of Time Theory of Ragas**

### **Unit 3 – (6 Marks)**

- 3.1 **Detailed study of the following:** Sangeet Ratnakar, Sangeet Parijat
- 3.2 **Life sketch and contribution of the following musicians:** Faiyaz Khan, Bade Ghulam Ali Khan  
Krishna Rao, Shankar Pandit

### **Unit 4 – (6 Marks)**

- 4.1 **Description of prescribed Talas along with Tala notation:**  
Thah, Dugun, Tigun, Chaugun, Jhaptala, Rupak, Dhamar
- 4.2 **Tuning of Tanpura**

### **Unit 5 – (6 Marks)**

- 5.1 **Critical study of prescribed Ragas along with recognizing Ragas from phrases of Swaras and elaborating them (excluding Raga Shuddha Sarang):**  
Bhairav, Bageshri, Malkauns
- 5.2 **Writing in Notation the compositions of prescribed Ragas:**  
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## **MUSIC INSTRUMENTAL**

### **Unit 1 – (6 Marks)**

- 1.1 **Brief study of the following:** Gram, Murchhana, Alankar, Alap, Tana
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### **Unit 2 – (6 Marks)**

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- 5.1 **Critical study of prescribed Ragas along with recognizing Ragas from phrases of Swaras and elaborating them**
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**BLM ACADEMY SENIOR SECONDARY SCHOOL**  
**SESSION 2023-24**  
**SYLLABUS PRE-BOARD**  
**CLASS XII**  
**HUMANITIES**

**ENGLISH**

Section A: Reading Skills	Reading Comprehension through Unseen Passage	22
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**POLITICAL SCIENCE:**

<b>Part A: Contemporary World Politics</b>	Chapter 1: The End Of Bipolarity	6
	Chapter 2: Contemporary Centres Of Power	12
	Chapter 3: Contemporary South Asia	
	Chapter 4: International Organizations	12
	Chapter 5: Security In Contemporary World	
	Chapter 6: Environment And Natural Resources	10
	Chapter 7: Globalisation	
<b>Part B: Politics In India Since Independence</b>	Chapter 1: Challenges Of Nation-Building	10
	Chapter 2: Era Of One-Party Dominance	
	Chapter 3: Politics Of Planned Development	2
	Chapter 4: India's External Relations	10
	Chapter 5: Challenges To And Restoration Of The Congress System	
	Chapter 6: The Crisis Of Democratic Order	10
	Chapter 7: Regional Aspirations	
	Chapter 8: Recent Developments In Indian Politics	

## **GEOGRAPHY:**

1. Human Geography (3 marks)
2. The World Population Density, Distribution and Growth (5 marks)
3. Human Development (3 marks)
4. Primary Activities (4 marks)
5. Secondary Activities (3 marks)
6. Tertiary and Quaternary Activities (3 marks)
7. Transport, Communication and Trade (7 marks)
8. International Trade (5 marks)
9. Population Distribution, Density, Growth and Composition (5 marks)
10. Human Settlements (3 marks)
11. Land Resources and Agriculture (3 marks)
12. Water Resources (3 marks)
13. Mineral and Energy Resources (4 marks)
14. Planning and Sustainable Development in Indian Context (2 marks)
15. Transport and Communication (7 marks)
16. International Trade (5 marks)
17. Geographical Perspective on selected issues and problems (5 marks)

## **HISTORY:**

1. Bricks, Beads and Bones: The Harappa Civilisation (6marks)
2. Kings, Farmers and Towns Early States and Economies (c.600 BCE-600 CE) (6 marks)
3. Kingship, Caste and class Early Societies (c. 600 BCE - 600 CE) (6 marks)
4. Thinkers, Beliefs and Buildings Cultural Developments (c. 600 BCE-600 CE) (6 marks)
5. Through the eyes of Travellers: Perceptions of Society (c. tenth to seventeenth centuries) (5 marks)
6. Bhakti-Sufi Traditions: Changes in Religious Beliefs and Devotional Texts (c. eighth to eighteenth centuries) (5marks)
7. An Imperial Capital – Vijayanagar (c. fourteenth to sixteenth centuries) (7 marks)
8. Peasants, zamindars and the States Agrarian Society and the Mughal Empire (c. sixteenth-seventeenth centuries) (7 marks)
9. Colonialism and The Countryside: Exploring Official Archives (8 marks)
10. Rebels and Raj 1857 Revolt and its Representations (8marks)
11. Mahatma Gandhi and the National Movement Civil Disobedience and Beyond (9 marks)
12. Framing of the Constitution: The Beginning of a New Era (7 marks)

## **OPTIONAL:**

### **COMPUTER SCIENCE:**

#### **Weightage—10 marks for Chapter1 and 2**

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#### **Weightage—30 marks for Chapter3,4,5 and 9**

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**PSYCHOLOGY:**

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|---|----|
| 1. Variations in Psychological Attributes | 9  |
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| 4. Psychological Disorders                | 15 |
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**PAINTING:**

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**PHYSICAL EDUCATION:**

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Note: **b\*** are the Concept based questions like Tactile diagram/data interpretation

## **MUSIC VOCAL**

### **Unit 1 – (6 Marks)**

1.1 **Brief study of the following:** Alankar, Kan, Meend, Khatka, Murki, Gamak

1.2 **Brief study of the following:** Gram, Murchhana, Alap, Tana

### **Unit 2 – (6 Marks)**

2.1 **Historical development of Time Theory of Ragas**

### **Unit 3 – (6 Marks)**

3.1 **Detailed study of the following:** Sangeet Ratnakar, Sangeet Parijat

3.2 **Life sketch and contribution of the following musicians:** Faiyaz Khan, Bade Ghulam Ali Khan  
Krishna Rao, Shankar Pandit

### **Unit 4 – (6 Marks)**

4.1 **Description of prescribed Talas along with Tala notation:**

Thah, Dugun, Tigun, Chaugun, Jhaptala, Rupak, Dhamar

4.2 **Tuning of Tanpura**

### **Unit 5 – (6 Marks)**

5.1 **Critical study of prescribed Ragas along with recognizing Ragas from phrases of Swaras and elaborating them (excluding Raga Shuddha Sarang):**

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