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**CONVENT OF JESUS & MARY
WAVERLEY**

MUSSOORIE, U.K. - 248179

SYLLABUS-2018-19

Biology

TERM-I

- Topics:
1. Reproduction in Organisms
 2. Sexual Reproduction in Flowering Plants
 3. Human Reproduction
 4. Reproductive Health
 5. Principles of Inheritance and Variation
 6. Ecosystem
 7. Environmental Issues
 8. Biodiversity and Conservation

TERM-II

- Topics:
9. Molecular Basis of Inheritance
 10. Evolution
 11. Human Health and Disease
 12. Strategies for Enhancement in Food Production
 13. Microbes in Human Welfare
 14. Biotechnology: Principles and Processes



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15. Biotechnology and Its Application
16. Organisms and Populations

Chemistry

Months

Name of Topics (Theory-70)

March 2018:

1 Solid state -04

2 Solutions - 05

3 Electrochemistry - 05

April 2018:

1 Chemical Kinetics - 05

2 Surface Chemistry - 04

3 Some 'p' Block Elements - 08

May 2018:

1 'D' and 'F' Block Elements - 05

2 Alcohols, Phenols and Ethers - 04

3 Haloalkanes, Haloarenes - 04

June 2018:

1 Aldehyde Ketones and Carboxylic Acid- 06

2 Polymers - 03

July 2018:

1 General principle isolation of Elements

2. Bimolecular

August 2018:

1 Co-Ordination Compounds- 03

2 Org. Compounds containing Nitrogen- 04



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September 2018:	Chemistry in Everyday Life- 03
October 2018:	Project Work- 04
	Practical - 30 Mark
March 2018:	Qualitative analysis of two acid Radicals - 08
April 2018:	Two Basic Radicals - 08
May 2018:	One Acid and One Basic Radical - 08
June 2018:	One Acid and One Basic Radical - 08
July 2018:	Qualitative analysis volumetric analysis - 08
August 2018:	Core Based Experiment Functional Groups - 06
September 2018:	Core Based Experiment Functional Groups - 06
October 2018:	Record + Viva – 04

Physics

UNIT - I	Electrostatics
UNIT - II	Current Electricity
UNIT - III	Magnetic Effects of Current and Magnetism
UNIT - IV	Electromagnetic Induction and Alternating



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Currents

UNIT - V Electromagnetic Waves

UNIT - VI Optics

UNIT - VII Dual Nature of Matter and Radiation

UNIT - VIII Atoms and Nuclei

UNIT - IX Electronic Devices

UNIT - X Communication System

Mathematics

UNIT - I **Relations and Functions**

Topics: 1 Relations and Functions

2 Inverse Trigonometric Functions

UNIT - II **Algebra**

Topics: 1 Matrices

2 Determinants

UNIT - III **Calculus**

Topics: 1 Continuity and Differentiability

2 Applications of Derivatives

3 Integrals

4 Applications of the Integrals

5 Differential Equations



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UNIT - IV

Vectors and Three-Dimensional Geometry

- Topics:
- 1 Vectors
 - 2 Three-dimensional Geometry

UNIT - V

Linear Programming

UNIT - VI

Probability

ENGLISH CORE

TERM-I

Section A: Reading Comprehension

- Topics:
1. Unseen Passages: - Comprehension
 2. Note-making & Summarizing

Section B: Advanced Writing Skills

- Topics:
- I. Short Answer Questions
 1. Advertisements- classified & Commercial
 2. Drafting of posters
 3. Notices
 - II. Long Answer Questions
 1. Business letter for Enquiries, Complaints, Asking for Information,
Replying to queries, placing order etc.
 - III. Article, Speech and Debate



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Section C: Textbooks & Novel

Reader "Flamingo" –Prose:-

- Topics:
1. The Last Lesson
 2. Lost Spring
 3. Deep Water
 4. The Rattrap

Poems:-

1. My Mother at Sixty six
2. An Elementary School classroom in a slum
3. Keeping Quiet

Supplementary Reader "Vistas"

- Topics:
1. The Tiger King
 2. The Enemy
 3. Should Wizard Hit Mommy?

Novel :- "The Invisible Man" (Self Read)

Lesson :- 1 -20 Textual Questions



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TERM-II

Section A:

1. Unseen Passages:
2. Note-making

Section B: I. Short answer Questions

- Topics:
1. Invitations & Replies(Formal & informal)
 2. Report
 3. Factual Description
 4. Process Description

II. Long answer questions

1. Letter to the Editor
2. Application for a Job
3. Practice in Writing Articles, Speeches & Debates

Section C: "Flamingo" Prose:-

- Topics:
1. Indigo
 2. Going Places

Poems:-

1. Keeping Quiet
2. A Thing of Beauty
3. Aunt Jennifer's Tigers



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- Vistas:**
4. On the Face of it
 5. Evans Tries an O - Lord
 6. Memories of Childhood

Novels:- "The Invisible Man" – Lesson 21-28 Discussing and Writing Long Answer Questions.

PAINTING

TERM-I

PART-I

1st Lesson

Indian miniature painting

- Topics:**
- 1 Pal School
 - 2 Western Indian painting or Jain school
 - 3 Central Indian painting

IInd Lesson

The Rajasthan School

- Topics:**
- 1 Origin and development
 - 2 Sub - school: Mewar, Bundi, Jodhpur, Bikaner, Kishangarh and Jaipur



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- 3 Main features of the Rajasthani School
- 4 Study of the following Rajasthani paintings
 - (i) Maru Ragini
 - (ii) Raja Anirudha Singh Hara
 - (iii) Chaugan players
 - (iv) Krishna on swing
 - (v) Radha (Bani-Thani)
 - (vi) Bharat meets Rana at chitrakut

IIIrd Lesson

The Pahari School

Topics:

- 1 Origin and development
- 2 Sub - Schools : Basohli and Kangra
- 3 Main features of the Pahari school
- 4 Study of the following Pahari paintings
 - (i) Krishna with Gopis - Basohli
 - (ii) Bharat worshiping Charan padukas of Rama-Guler
 - (iii) Cosmic Dance of lord Shiva - Chamba
 - (iv) Nand, yashoda and Krishna with Kinsmen going to Vrindavan - Kangra
 - (v) Radha and Krishna looking in to a Mirror - Garhwal



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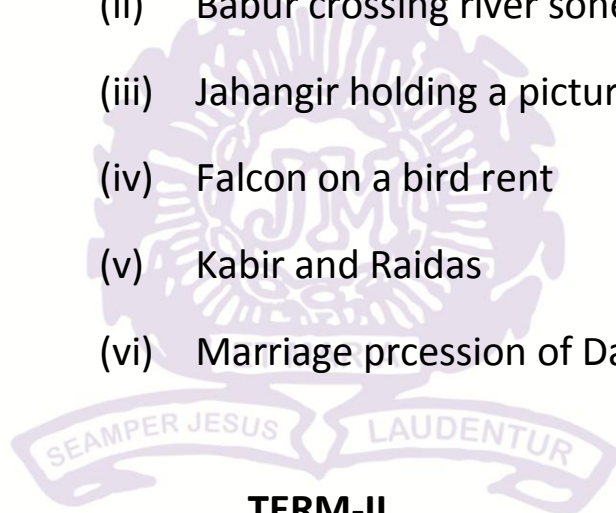
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IVth Lesson

The Mughal School

- Topics:
- 1 Origin and development
 - 2 Main features of the Mughal school
 - 3 Study of the following Mughal paintings
 - (i) Krishna lifting mount Goverdhan
 - (ii) Babur crossing river sone
 - (iii) Jahangir holding a picture of Madona
 - (iv) Falcon on a bird rent
 - (v) Kabir and Raidas
 - (vi) Marriage prcession of Dara shikoh



TERM-II

Part - II

Vth Lesson

The Deccan School

- Topics:
- 1 Origin and development
 - 2 Main features of the Deccan School
 - 3 Study of the following Deccan paintings
 - (i) Ragini Pathamsika - Ahmednagar
 - (ii) Sultan Abdullah Qutb shah – Bijapur



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(iii) Hazrat Nizam-ud-din Awaliya and Amir
Khusro-Hyderabad

(iv) Dancers - Hyderabad

(v) Chand Bibi playing polo (Chaugan) - Gol
Konda

VIth Lesson New Era in Indian art

Topics:

- 1 An introduction
- 2 Rama Vanquishing the Pride of the ocean
- 3 Evolution of the Indian National Flag

VIIth Lesson The Bengal School of Painting

Topics:

- 1 Origin and development of Bengal school
- 2 Main features of the Bengal school
- 3 Contribution of Indian artists in the struggle for
National freedom movement
- 4 Study of the following paintings of the Bengal
school
 - (i) Journey's End - Abanindranath Tagore
 - (ii) Shiva and Sati - Nandlal Bose
 - (iii) Rashila - Kshitindranath Mazundar



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- (iv) Radhika - M.A.R Chughtai
- (v) Meghdoot - Ram Gopal Vijayvargiya

VIIIth Lesson

The Modern Trends in Indian Art

Topics:

- 1 An introduction
- 2 Study of the following paintings:
 - (i) Magician - Gaganendranath Tagore
 - (ii) Mother and Child - Jamini Roy
 - (iii) Three Girls - Amrita Sher Gill
 - (iv) Mother Teresa - M.F Husian
 - (v) Gossip - N.S. Bendre
 - (vi) Untitled - G.R. Santosh
- 3 Study of the following Graphic Prints:
 - (i) Whirl-pool - Krishna Reddy
 - (ii) Children - Samnath Hore
 - (iii) Devi - Jyoti Bhatt
 - (iv) Of Walls - Anupam sud
 - (v) Man, Woman and Tree - K.Laxma Goud
- 4 Study of the following Sculptures:
 - (i) Triumph of Labour - D.P. Roy Chowdhary



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- (ii) Samthal Family - Ramkinker Baij
- (iii) Cries un-heard-Amar Nath Shegal
- (iv) Ganesha - P.V Janakiram
- (v) Chaturmukhi - AekkaYadagiri Rao

Unit I

Relations and Functions

- ❖ Relations and Functions
- ❖ Inverse Trigonometric Functions

Unit II

Algebra

- ❖ Matrices
- ❖ Determinants

Unit III

Calculus

- ❖ Continuity and Differentiability
- ❖ Applications of Derivatives
- ❖ Integrals
- ❖ Applications of the Integrals
- ❖ Differential Equations

Unit IV

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- ❖ Vectors
- ❖ Three - dimensional Geometry

Unit V

Linear Programming

- ❖ Linear Programming

Unit VI

Probability

- ❖ Probability

