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**CONVENT OF JESUS & MARY
WAVERLEY**

MUSSOORIE, U.K. - 248179

SYLLABUS - 2018-19

CLASS – XI SCIENCE

BIOLOGY

TERM-I

- Topics:**
1. The Living World
 2. Animal Kingdom
 3. Cell: The Unit of Life
 4. Mineral Nutrition
 5. Digestion and Absorption
 6. Breathing and Exchange of Gases
 7. Body Fluids and Circulation
 8. Excretory Products and their Elimination
 9. Locomotion and Movements
 10. Neural Control and Coordination
 11. Chemical Coordination and Integration

Term - II

- Topics:**
12. Biological classification
 13. Plant Kingdom
 14. Morphology of Flowering Plants
 15. Anatomy of Flowering Plants



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-
16. Structural Organisation in Animals (I. Animal Tissues)
 17. Structural Organisation in Animals (II. Morphology & Anatomy)
 18. Biomolecules
 19. Cell Cycle and Cell Division
 20. Transport in Plants
 21. Photosynthesis in Higher Plants
 22. Respiration in Plants
 23. Plant Growth and Development

CHEMISTRY

Months	S.No	Name of Topics
April 2018	1.	Some Basic Concepts of Chemistry - 05 Structure of Atoms - 06
May 2018	2.	Some Basic Principle and Techniques - 07 Classification of elements and periodicity in properties - 04
June 2018	3.	Chemical Boarding and Molecular structure - 05 States of Matter - 04
July 2018	4.	Thermodynamies - 06 Equilibrium - 06 Redox - 03



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Aug 2018	5.	Hydrogen - 03 'S'- Block Elements - 05
Sep 2018	6.	Some 'P' - Block Elements - 05 Hydrocarbons - 08
Oct 2018	7.	Environmental Chemistry - 03

PHYSICS

Unit I:	Physical World and Measurement
Unit II:	Kinematics
Unit III:	Laws of Motion
Unit IV:	Work, Energy and Power
Unit V:	Motion of System of Particles and Rigid Body
Unit VI:	Gravitation
Unit VII:	Properties of Bulk Matter
Unit VIII:	Thermodynamics
Unit IX:	Behaviour of Perfect Gas and Kinetic Theory
Unit X:	Oscillations and Waves

PRACTICALS

Section – A:

TOPICS:	1.	Experiments
	2.	Activities



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Section – B:

- TOPICS:**
1. Experiments
 2. Activities

MATHEMATICS

UNIT I: SETS AND FUNCTIONS

- TOPICS:**
1. Sets
 2. Relations and Functions
 3. Trigonometric Functions

UNIT II: ALGEBRA

- TOPICS:**
1. Principle of Mathematics Induction
 2. Complex Numbers and Quadratic Equations
 3. Linear Inequalities
 4. Permutations and Combinations
 5. Binomial Theorem
 6. Sequence and Series

UNIT III: COORDINATE GEOMETRY

- TOPICS:**
1. Straight Lines
 2. Conic Sections
 3. Introduction to Three-dimensional Geometry

UNIT IV: CALCULUS

- TOPICS:**
1. Limits and Derivatives

UNIT V: MATHEMATICS REASONING

UNIT VI: STATISTICS AND PROBABILITY



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- TOPICS:**
1. Statistics
 2. Probability

ENGLISH

TERM-I

SECTION A: Reading - Unseen Comprehension Passages

SECTION B: **WRITING & GRAMMAR**

PART I

- TOPICS:**
1. Notices, Posters
 2. Letter writings - official letters, letters of complaint and letters of enquiry
 3. Long composition: Article, Speech

PART II: Use of determiners, Tenses, errors correction exercises

SECTION C: Textbooks

"HORNBILL"

- PROSE: -**
1. The Portrait of a Lady
 2. We're not afraid to die if we can all be together
 3. The Ailing Planet: The Green Movements role
- Poetry: -**
1. A Photograph
 2. The Voice of the Rain



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"SNAPSHOTS"

1. The summer of the Beautiful White Horse
2. Albert Einstein at school
Long Reading Novel (self-read)
Assessment of Speaking & Listening Skills

Term - II

SECTION A:

READING

1. Note - Making & Summarizing

SECTION B:

PART I

1. Advertisements
2. Letter - writing: Letters of Enquiry & their replies, Letters to the Editor
3. Long Composition - Report Writing

PART II

1. Clauses, Modals - Active/Passive Voice
Exercises involving these structures

SECTION C:

TEXTBOOKS.

"HORNBILL"

Prose 1. The Booming Version

Poetry 1. Childhood

2. Father to Son

"SNAPSHOTS"

1. Mother's Day



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2. Birth
3. The Tale of Melon City

Distribution of Marks out of 100

Reading skills	20
Writing Skills & Grammar	30
Text books & Long Reading Novel	30
ASL	20

PAINTING

PART-I

Sr. No.	Lesson Name
1.	Pre-Historic Rock Paintings
2.	Bhimbetka - an introduction
3.	Study of Rock paintings <ol style="list-style-type: none">(i) A Roaring animal(ii) Wizard's Dance
4.	Art of Indus Valley - an introduction
5.	Study of Sculptures and Terracottas <ol style="list-style-type: none">(i) Dancing Girl (Mohenjo - daro)(ii) Male Torso (Harappa)(iii) Mother Goddess (Mohenjo - daro)
6.	Study of Seal <ol style="list-style-type: none">(i) Bull Seal (Mohenjo - daro)



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7. Decoration on earthen – ware (jar), Mohenjo - daro
8. Art during Mauryan, Shunga, Kushana and Gupta Period
9. Study of Sculptures
 - (i). Lion capital from Sarnath (Mauryan period)
 - (ii). Chauri Bearer from Didarganj (Mauryan period)
 - (iii) Boddhisatva head from Taxila (Gandhara)
 - (iv) Seated Buddha from Katra Tila
 - (v) Seated Buddha from Sarnath (Gupta)
 - (vi) Jain Tirthankara

PART-II

10. Introduction to Ajanta
11. Study of paintings
 - (i) Padmapani Boddhisattva (Ajanta cave No -1)
 - (ii) Mara Vijay (Ajanta cave No - 26)
12. Introduction to temple Sculpture
13. Study of temple Sculpture
 - (i) Descent of Ganga (pallava Mahabalipuram Tamilnadu)
 - (ii) Ravana shaking mount Kailash (Rashtva Kuta Ellora, Maharashtra)
 - (iii) Trimurti (Elephants, Maharashtra)
 - (iv) laxmi Narayan kandriya mahadev temple (Chandela Khajuraho, M.P)
 - (v) cymbal player, Sun temple (Ganga Dynesty, Konark, Orissa)
 - (vi) Mother and child (Vimla - Shah temple, Solanki,



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Dilmara, Mount Abu)

14. Introduction to Indian Bronzes
 - (i) Method of casting (Solid and hollow)
15. Study of Bronze Sculpture
 - (i) Mataraj (Thanjavur Ditt; Tamilnadu)
 - (ii) Devi(uma)
16. Artistic aspects of the indo - Islamic architecture
17. Study of architecture
 - (i) Qutub Minar, Delhi
 - (ii) Taj Mahal, Agra
 - (iii) Gol Gumbaj of Bijapur

