B.C.M. SCHOOL SYLLABUS OF CLASS XI Class <u>MEDICAL & NON MEDICAL</u>

EXAMINATION PATTERN (Session 2017-2018)

CONSOLIDATED RESULT

Unit Test I (Weightage)	10 marks
Maximum marks for each test will be 50. Test will in the month of July.	be conducted
Mid Term (Weightage)	20 marks

Maximum marks for each subject will be same as per CBSE pattern. Exam. will be conducted in the month of September.

Unit Test II (Weightage) 20 marks Maximum marks for each subject will be same as per CBSE pattern. Exam. will be conducted in the month of December.

Annual Exam. (Weightage)50 marksMaximum marks for each subject will be same as per CBSE
pattern. Exam. will be conducted in the month of February.Total100 marks

NOTE : Weekly tests will be conducted in the months not mentioned above.

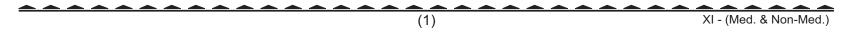
PROMOTION POLICY : (i) A student must secure at least 33% marks in Final Exam. and Consolidated result

- in all subjects to be eligible for promotion to next class.
- (ii) A student failing in two subjects will be considered fail.
- (iii) A student failing in one subject may be given one chance of Re-Test within one month time.

General Instructions :

1. It is mandatory for a student to appear in each of the examination.

- 2. In case of illness, medical certificate must be submitted **within a week of the day of examination** failing which the student will be assigned zero marks in the respective exam.
- 3. Minimum 75% attendance throughout the session is mandatory for a student to be eligible to appear in the Final Examination.



ENGLISH

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List of Books : 1. Hornbill 2. Snapshots 3. Refe	rence Book BBC 4. Novel · The Canterville Ghost by Osca	r Wilde
Examination Specifications : Listening & Speaking) Marks (80 + 20) 0 Marks
Section A Reading unseen prose or poetry passage a	(Reading Skills) (20 marks) nd note - making + 8)	
Se	ection B (20 marks)	
Composition based on a visual / verbal inpu Articles / Speeches/ Reports / Factual Desu Writing Letters based on given input (a) bus	cription / Narrative siness or official letters / information, placing orders and sending replies (b) letters to the ec	4 10 6 litors
Section C (Grammar) (10 marks)		
	ngful contents will be tested. Item types will include gap filling, editing, omitting and sentence transformation.	(3 + 4 + 3)
Section D (Literature) (30 marks)		
Course Book (Horn bill) Supplementary Reader (Snapshots)	Extracts from poem (3 marks) Short answer questions (3 X 3) = 9 marks	
Novel - The Canterville Ghost BBC Sample Papers	Long answer questions $(6+6)$ text book, $(6+6)$ Novel	
Section E (Conversational Skills) (20 Listening Speaking	marks)	10 10
	(2)	XI - (Med. & Non-Med.)

Month	Syllabus to be covered in :	
APRIL	Report/Writing, Tenses, Classified Advertisements, The Portrait of a Lady, A Photograph, Novel - The Canterv	ville Ghost - Ch. 1, 2
MAY	Comprehension Passage, The Summer of the Beautiful White Horse, Novel - We are not afraid to die, Applica	tion for a Job, The Address
	Letter Writing Business / Official, Posters, Notices, Determiners, Narratives	
JULY	I UNIT TEST	
AUGUST	Ranga's Marriage, Albert Einstein At School, Novel - Ch. 3, 4, 5, Ch - 3 Discovering Tut : The Saga Continue	es
	Mother's Day, Note Making	
SEPT.	Childhood, The Voice of the Rain	
	HALF YEARLY (100 Marks)	
OCTOBER	Clauses, The Ailing Planet, The Browning Version, Modals, Posters	
	Novel : Chapter 6, 7	
NOVEMBER	Father to Son, Birth, The Tale of Melon City	
DECEMBER:	Revision	
	UNIT TEST II (FLT)	
JANUARY	REVISION	
FEBRUARY	FINALS	
	(3)	XI - (Med. & Non-Me

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	•	k : Fundamental Practical Note Book (Vijaya Publication)
Month	Syllabus to be covered in :	
April	Unit 1 - Physical World & Measurement	
Мау	Unit 2 - Kinematics	
June	SUMMER VACATION	
July	UNIT TEST (50 Marks) Unit 2 - Kinematics (continued)	
August	Unit 3 - Laws of Motion, Unit - 4 Work, Energy & Power	
	Unit - 5 Motion of System of particles and rigid body	
Sept.	Unit - 5 Continued, Half Yearly Examination (FLT)	
	Syllabus - Unit 1, 2, 3, 4 & 5	
Oct.	Unit 6 - Gravitation, Unit 7 - Properties of Bulk Matter	
Nov.	Unit 8 - Thermodynamics Unit 9 - Behaviour of perfect gas & Kinetic theory of gases Class Test 2 : 25 Marks	
Dec.	Unit 10 - Oscillations & Waves 2nd Unit Test (FLT) Syllabus:Unit 7, 8, 9	
Jan.	Unit 10 - Oscillations & Waves (Contd.)	
Feb.	Revision Work & Final Exams.	

(4)

Text Book : N.C.E.R.T. (Chemistry)

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CHEMISTRY

Month	Syllabus to be covered in :	
April	Unit I : Some basic concepts of Chemistry Unit II : Structure of Atom.	
Мау	Unit III : Classification of Elements and periodicity in properties	
June	SUMMER VACATION	
July	Unit Test - I	
August	Unit IV : Chemical Bonding and Molecular Structure Unit VII : Equilibrium Unit VIII : Redox Reaction	
September	Unit IV : Continue Half Yearly Examination Syllabus : Unit I, II, III, IV, VII, VIII	
October	Unit X : S Block Element Unit XI : Organic Chemistry Unit XIII : Hydrocarbon	
November	Unit VI : Thermodynamics Unit V : States of Matter - Gases and liquid Unit IX : Hydrogen	
	(5)	XI - (Med. & Non-Med.)

CHEMISTRY

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Month	Syllabus to be covered in :	
December	Unit XI : p - Block Elements Unit Test II: Syllabus includes Units : XIII, X, VI, V, IX	
January	Unit XIV : Environmental Chemistry	
February	Revision work and Final Exams.	
	(6)	XI - (Med. & Non-Med.

SYLLABUS 2017-2018

BOOKS RECOMMENDED :

MATHEMATICS

(i) NCERT BOOK

Month	Syllabus to be covered in :	
APRIL	Chapter - 1 Sets Chapter - 2 Relations and Functions (Chapter - 1 from reference book will also be covered)	
MAY	Chapter - 3 Trigonometry (Chapters 7, 8, 9, 10 from book by R. D. Sharma)	
JULY	Chapter - 4 Principle of Mathematical Induction	
AUGUST	Chapter - 5 Complex Numbers & Quadratic Equations Chapter - 6 Linear Inequalities Chapter - 7 Permutations & Combination (Extra questions related to Complex Number & Quadratic Equations from book by R. D. Sharma)	
SEPT.	Half Yearly Exam.	
	(7)	XI - (Med. & Non-Med.)

MATHEMATICS

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Month	Syllabus to be covered in :	
OCTOBER	Chapter - 8 Binomial Theorem Chapter - 9 Sequences & Series (Special Sequences) Chapter - 10 Straight Lines	
NOVEMBER	Chapter - 11 Conics Chapter - 12 Introduction to Three Dimensional Geometry Chapter - 13 Limits & Derivatives (Conics & Derivatives from reference book also)	
DECEMBER	UNIT TEST (FLT)	
JANUARY	Chapter - 14 Mathematical Reasoning Chapter - 15 Statistics Chapter - 16 Probability	
FEBRUARY	Revision & Annual Exam	
	(8)	XI - (Med. & Non-Med

Text Book : N.C.E.R.T. (Biology)		
Month	Syllabus to be covered in :	
APRIL	L - 1 Living World, L - 2 Biological classification, L - 3 Plant Kingdom	
MAY	L - 5 Morphology of flowering plants, L - 6 Anatomy of Flowering Plant	
JULY	UNIT TEST - (50 Marks) (L - 1, L - 2, L - 3, L- 5	
AUGUST	L - 7 Structural organisation in animals. L - 8 Cell : The Unit of Life L - 9 Biomolecules	
SEPT.	L - 10 Cell Cycle & Cell Division L - 11 Transport in Plants Half Yearly Examination (70 Marks) (L 1 - 10)	
OCTOBER	L - 13 Photosynthesis L - 14 Respiration L - 15 Plant growth & Development	
		XI - (Med. & Non-Me

SYLLABUS 2017-2018

BIOLOGY

Month	Syllabus to be covered in :	
NOV.	L - 16 Digestion and Absorption. L - 17 Breathing and exchange of gases. L - 18 Body Fluids and Circulation	
DEC.	L - 19 Excretory products and their elimination L - 20 Locomotion and Movement Full Length Test - 70 Marks	
JAN.	L - 21 Neural Control and Co-ordination L - 22 Chemical Co-ordination and Integration L - 4 Animal Kingdom	
FEB.	Revision & Final Examination - 70 Marks	
	(10)	XI - (Med. & Non-Med.

Month	Syllabus to be covered in :	
	Text Book : Swan Publication	
April -	Unit -1 : Changing Trends and Career in Physical Education	
May	* Meaning & definition of Physical Education	
(Ch. 1, 2)	* Aims & Objectives of Physical Education	
(0111 1, 2)	* Changing trends in Physical Education	
	* Various Physical Education Courses available in India	
	* Career Options in Physical Education	
	* Soft skills required for different careers	
	Unit - II : Olympic Movement	
	* Ancient and Modern Olympics (Summer & Winter)	
	* Olympic Symbols, Ideals, Objectives and Values	
	* International Olympic Committee	
	* Indian Olympic Association	
	* Dronacharya Award, Arjuna Award and Rajiv Gandhi Khel Ratna Aw	vard
	* Organisational set-up of C.B.S.E. Sports and Chacha Nehru Sports A	
July	UNIT TEST	
Aug	Unit - III : Physical Fitness, Wellness & Lifestyle	
Sept.	* Meaning & Importance of Physical Fitness, Wellness & Lifestyle	
(Ch. 3, 4, 5)	* Components of physical fitness	
(CII. 5, 4, 5)	* Components of Health related fitness.	
	* Components of wellness	
	* Preventing Health Threats Through Lifestyle Change	
	* Concept of Positive Lifestyle	
		XI - (Med. & Non-Med

(11)

Month	Syllabus to be covered in :
	UNIT - IV : Physical Education & Sports for Differently Abled
	* Aims & objectives of Adaptive Physical Education
	* Organization promoting Adaptive Sports (Special Olympic Bharat; Paralympics; Deaflympics)
	* Concept and need of Integrated Physical Education
	* Concept of Inclusion, its need and Implementation
	* Role of various professionals for children with special needs (Counsellor, Occupational Therapist,
	Physiotherapist, Physical Education Teacher, Speech Therapist & Special Educator)
	UNIT - V : Yoga
	* Meaning & Importance of Yoga
	* Elements of Yoga
	* Introduction - Asanas, Pranyam, Meditation & Yogic Kriyas
	* Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Shashankasana)
	* Relaxation Techniques for improving concentration - Yog-nidra
Sept.	HALF YEARLY
Oct Nov.	UNIT - VI : Physical Activity & Leadership Training
(Ch. 6, 7,	* Introduction to physical activity & leadership
8, 9, 10)	* Qualities & role of a Leader
	* Behaviour change stages for physical activity (Pre-contemplation; Contemplation; Planning; Activ
	Maintenance)
	* Creating leaders through Physical Education
	* Meaning, objectives & types of Adventure Sports (Rock Climbing, Tracking, River Rafting,
	Mountaineering, Surfing and Para Gliding)
	* Safety measures during physical activity and adventure sports
	Salety measures aumis physical activity and adventate sports

Month	Syllabus to be covered in :
	UNIT -VII : Test and Measurement in Sports
	* Define Test, Measurement and Evaluation
	* Importance of Test and Measurement & Evaluation in Sports
	* Calculation of BMI and Waist-Hip Ratio
	* Somato Types (Endomorphy, Mesopmorphy and Ectomorphy)
	* Precedures of Anthropromatric Measurement - Height, Weight, Arm and Leg length
	UNIT - VIII : Fundamentals of Anatomy and Physiology
	* Define Anatomy, Physiology and Its importance
	* Function of Skeleton System, Classification of Bones and Types of Joints
	* Properties of Muscles
	* Function and Structure of Muscles
	* Function and Structure of Respiratory System, Mechanism of Respiration
	* Structure of Heart and Introduction of Circulatory System
	* Oxygen Debt, Second Wind
	UNIT - IX : Kinesiology, Biomechanics & Sports
	* Meaning & Importance of Kinesiology & Biomechanics in Phy. Edu. & Sports
	* Levers & Its Types and its application in sports
	* Equilibrium - Dynamic & Static And Centre of Gravity and its application in sports

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Month	Sy	/llabus to be covered in :	
	*	Force - Centrifugat & Centripetal and its application in sports	
	*	Introduction to Buoyancy Force	
	UNIT - X :	Psychology and Sports	
	*	Definition and Importance of Psychology in Physical Education and Sports	
	*	Define and Differentiate between Growth and Development	
	*	Developmental Characteristics at Different Stage of Development	
	*	Adolescent Problems and their Management	
	*	Define Learning, Laws of Learning (Law of Readiness; Law of effect & Law	of Exercise) &
		Transfer of Learning.	,
	*	Plateau & causes of plateau	
	*	Emotion : Concept, Type & Controlling of emotion	
DEC.	UNIT - XI :	Training in Sports	
(Ch. 11)	*	Meaning & Concept of Sports Training	
	*	Principles of Sports Training	
	*	Warming up and Limbering down	
	*	Load, Symptoms of Over-load, Adaptation & Recovery	
	*	Skill, Technique & Style	
	*	Role of Free-play in the development of Motor Component.	
		& UNIT TEST	
		(14)	XI - (Med. & Non-Me

Month Syllabus to be covered in : **UNIT - XII : Doping** JAN. * Concept & classification of doping. * Prohibited Substances & methods * Athletes Responsibilities * Side Effects of Prohibited Substances * Ergogenic aids and doping in sports * Doping control procedure FEB. **REVISION & FINAL EXAM.** (15)

PHYSICAL EDUCATION

COMPUTER SCIENCE

Month	Syllabus to be covered in :	Month	Syllabus to be covered in :
	TEXT BOOK : COMPUTER SCIENCE with C++ Vol. I & II By SUMITA ARORA		
April	Getting started with C++,/ Data Handling	Nov.	Array & Structure
Мау	Operators & Expressions in C++ / Working with OS	Dec.	UNIT TEST - II (FLT)
June	Summer Vacations		Data Representation, General OOP concpets
July	UNIT TEST Flow of Control (if and its types) / Input Output	Jan.	Computer Overview & REVISION
	Memory Devices	Feb.	REVISION & FINAL EXAM.
August	Flow of Control (Looping) / Programming Methodology		
Sept.	Functions (Half) - (Built Infunction)		
	HALF YEARLY		
Oct.	Functions (complete) (Uses defined function)		
			XI - (Med. & Non-N

	BOOK : Informatics Practices by NCERT Informatics Practices by Sunita Arora		
Month	Syllabus to be covered in :		
April :	Introduction Unit - 3 Relational Database Management System Ch 12 - Relational Database Concepts Ch 13 - Introduction to MySQL		
May :	Ch 14 - Classification of SQL Statement: Creating and using a database : Creating a table, Displaying table date using predicates and other queries.		
June :	Summer Vacation		
July :	Revision of DBMS Ch. 15, 16 - Functions in MySQL UNIT TEST - I		
August :	Unit 1 : Introduction to Computer System Ch 1,2 - Hardware Concepts : Computer system organization basic concepts, Input devices, Output devices, Memory, Security of computer system and Software Concepts : Types		
Sept. :	Revision Unit 2 : Introduction to Programming Ch 11 - Programming Guidelines & Program Development Life Cycle HALF YEARLY EXAM.		
	(17)	XI - (Med. & Non-Med.)	

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Informatics Practices

Month	Syllabus to be covered in :
Oct. :	Ch 5 - Application programming using Control Structures Decision Structures and applications in IDE.
Nov. :	Ch 6, 7, 8 JAVA IDE Programming - I, II, III Ch 3, 4 : Introduction to Java Language
Dec. :	Unit 4 : APPLICATIONS Ch 17 - e- Governance. e - Business, e - Learning UNIT TEST - II (FLT)
Jan. :	Programming using IDE Programming Fundamental, Data Types Revision
Feb.	Revision Final Practical : Evaluation of Practical Examination 1. Problem Solving using Java 2. SQL Queries 3. Practical Record File 4. Presentation (Group of 3-4 students) 5. Viva Voce ANNUAL EXAMINATION

FINE ARTS

Month	Syllabus to be covered in :	
	BOOK NAME : PANORAMIC INDIAN PAINTING PUBLICATION : VISHAL PUBLISHING CO.	
APRIL :	Theory : *An Introduction of Art I - The elements and principles of Art II - Art Appreciation * Pre-Historic Rock Paintings	
	Practicals : Still Life : Study of two or three natural and geometric forms in pencil with light and shade from a fixed point of view.	
MAY :	Theory : Art of Indus Valley Civilization Practicals : Still Life in any medium (water / pastel / Tempra / Acrylic)	
July :	UNIT TEST - I	
August	Theory : General Introduction of Art during Mauryan, Shunga, Kushana and Gupta Period Class Test - 25 Marks Practicals : Landscapes and compositions in primary and secondary colours.	1.
	(19)	XI - (Med. & Non-Med

Month	Syllabus to be covered in :	
Sept.:-	Half Yearly Exams.	
Oct. :-	Theory : Art of Ajanta Practicals : Imaginative Sketches / painting based on subjects from life and nature in any medium.	
Nov. :	Theory : Temple Sculptures, Bronzes and Indo-Islamic Architecture Practicals : Sketches from Nature in Pencil shading. Class Test - 25 Marks	
Dec. :-	Revision Unit Test - II (FLT) Practicals: Sketches from nature in any media.	
Jan. :-	Revision & Exams.	
	(20)	XI - (Med. & Non-Med.)

MUSIC VOCAL (Hindustani)

Month	Syllabus to be covered in :	
<u>April</u>	Theory : Definition of the following : Swar Sangeet, Dhawani, Life Sketch of Tansen Ji Practical : Raag Bihaag, Taal-Dadra, Kehrwa.	
<u>May</u>	Theory : Saptak, Naad, Shruti, Pt. Vishnu Naryan Bhatkhande Practical : Raag Bhupali, Taal- Teen Taal.	
July	I UNIT TEST	
<u>August</u>	Theory : That, Jati, Brief History of Khayal. Practical - Devotional Song, Brief History of Dhrupad	
<u>September</u>	Half Yearly Examination	
<u>October</u>	Theory : Raag, Swar - malika. Practical : Char Taal, Vilambit Khayal	
<u>November</u>	Theory - Definition - Nibadh Gaan, Anibadh Gaan Life Sketch - Pt. Vishnu Digambar Pluskar Practical - Raag Jaunpuri, One Dharupad, Ek Taal.	
	(21)	XI - (Med. & Non-Med

MUSIC VOCAL (Hindustani)

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December Tarana, Gharana, Music in Natya Shastra January Revision & Final Exams.	
January Revision & Final Exams.	
(22) XI - (Med. & No	

HOME SCIENCE

Month	Syllabus to be covered in :	
	Text Book W. Pub HOME SCIENCE Saraswati : Textbook of Home Science	
Month	Theory	Practical
April	 * Concept of Home Science and its scope. * Human Development : Life Span Approach - Aspects of Development from birth till childhood 	* Interview working mothers to find out their arrangements for children in their absence.
Мау	* Protection from preventable diseases. - Substitute child care. - Managing emergencies.	
July	 * Family and Community Resources. Concept of resources and community resources. Management process and Decision making. 	* Floor decoration Project - preparing one accessory for decoration or Educational game
August	 Organisation of Time and Energy. Organisation of Space and Work. 	* Cleaning and polishing brass, aluminium, iron & plastic.
	(23)	XI - (Med. & Non-N

HOME SCIENCE

Month	Syllabus to be covered in :	
August	 * Fabric and Apparel. An introduction to fibre science. Fabric Construction. Fabric Finishes. 	 * Preparing weaves * Tests of fibres * Preparing samples of tie and dye.
September	 * Fabric finishes. * Food, Nutrition, Health and Fitness. - Functions of food. - Selection of food for optimum nutrition and Good Health. 	
October	 Maximising Nutritive Value of Food by Proper selection, Preparation adn Storage. (BRITISH COUNCIL ISA PROJECT) 	* Preparing snacks & meals using different methods of cooking.
November	 Community Development and Extension DWCRA, MNREGA, Communication. Keeping community resources clean. 	* Message for "Respect of Girl Child" & "Women's Empowerment".
December	Revision UNIT TEST - II (FLT)	
January	Revision and Class Test	
February	Final Exams	
	(24)	XI - (Med. & Non-M