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SAHIBZADA AJIT SINGH ACADEMY, ROOPNAGAR
Syllabus for XI (Medical-Non Medical) Class 2021-22

IMPORTANT INSTRUCTIONS

- DIVINITY**
- 19) Japji Sahib : Hemkunt Press Publisher, New delhi
401, Ansals Imperial Tower, C-Block
Community Centre Naraina Vihar,
Delhi-110028
- 20) The Illustrated Ardaas : Hemkunt Press Publisher, New delhi
401, Ansals Imperial Tower, C-Block
Community Centre Naraina Vihar,
Delhi-110028
- Physical Education**
- 21) Physical Education : SP Text Books, N.D 413, Sharda Nand Street,
Adda Hoshiarpur, Jalandhar (Pb.) India
- 22) Physical Education : SP Text Books, N.D 413, Sharda Nand Street,
Practical Notebook, For XI Classes Adda Hoshiarpur, Jalandhar (Pb.) India.
- Environmental Education**
- 23) A Textbook of Environmental : Goyal Brothers Prakashan, New Delhi.
Education for Class-XI D-231, Sec-63, Noida-201301(U.P),
- INFORMATICS PRACTICES**
- 24) A Text Book for class- XI : Sumita Arora Dhanpat Rai & Co.(P) Ltd.
4576/15, Agarrwal Road, Darya Ganj.
New Delhi-110002

- 1) No student from a school affiliated to the Board shall be eligible to take the examination unless he has completed 75% of attendance counted from the opening of class XI upto the 1st of the month proceeding the month in which the examination commences in the subjects of internal assessment.
- 2) Class XI examination shall be conducted internally by the school.
- 3) The Examination would be conducted in theory as well as in practicals, depending upon the nature of the subject (s) and the marks/grades allotted shall be as prescribed in the curriculum.
- 4) Assessment of theory/practical papers in external subjects shall be in numerical scores. In addition to numerical scores, the Board will indicate grades in the marks sheets issued to the candidates in case of subjects of external examinations.
- 5) In order to be declared as having passed the Class XI Examination a candidate shall obtain 33% marks in all the subjects. The pass marks in each subject of examination shall be 33%. In case of subject involving practical work a candidate must obtain 33% marks in theory and 33% in practical separately in addition to 33% marks in aggregate in order to qualify in that subject.
- 6) A candidate may offer an additional subject which can be either a language at elective level or another elective subject as prescribed in the Scheme of Studies, subject to the conditions laid down in the Pass Criteria.
- 7) Admission to class XI in a school shall be open only to such a student who has:
 - (a) Obtained minimum Grade D in at least five subject of external examination as per the scheme of studies and a Qualifying Certificate at the Secondary School (Class X) Examination conducted by this Board/Senior Secondary School affiliated to this Board.
 - (b) Has passed an equivalent examination conducted by any other recognised Board of Secondary Education/Indian University and recognised by this Board as equivalent to its secondary school examination.

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- 8) In all subjects examined by the Board, a student will be given one paper each carrying 100 marks for 3 hours. However, in subjects requiring practical examination, there will be a theory paper and a practical examination as required in the syllabi and courses.
- 9) A candidate failing in one of the five subjects of external examination shall be placed in compartment in that subject provided he/she qualifies in all the subjects of internal assessment.
- 10) There will be weekly tests on **Monday** – No Test, **Tuesday** – Maths/ Bio., **Wednesday** – Physics, **Thursday** – Chemistry, **Friday** – English/(Physical Education/ IP / Punjabi)
- 11) **Subject Code Numbers English** – 301, **Mathematics** – 041, **Phy. Edu.** – 048, **Biology** – 044, **Physics** – 042, **Chem.** – 043, **IP** – 65, **Punjabi** - 104
- 12) For Class XI, there will be Annual System of Examinations consisting of two unit tests (i.e. monthly tests in July and January), Cumulative exams. (i.e. half yearly in Sept.), and final exam in March.

SUBJECTS OF STUDIES & SCHEME OF EXAMINATIONS

The learning areas will include the following subjects of studies:

Details of question papers, marks and duration are given below:

Sr. No.	Subject	Code No.	No. of Question Papers (Theory)	Max. Marks	Duration	Max. Marks (Theory)	Duration	Max. Marks (Practical)	Duration	Suggestive Pds. Per Week
1.	Language I (English Core)	301	1	100	3 hrs.	-	-	-	-	6
2.	Language II Pbi. / Hindi Core	104/302	1	100	3 hrs.	-	-	-	-	6
3.	Mathematics	041	1	100	3 hrs.	-	-	-	-	12
4.	Physics	042	1	100		70	3 hrs.	30	3 hrs.	12
5.	Chemistry	043	1	100		70	3 hrs.	30	3 hrs.	12
6.	Biology	044	1	100		70	3 hrs.	30	3 hrs.	12
7.	Informatics Practices	065	1	100		70	3 hrs.	30	3 hrs.	6
8.	Physical Education	048	1	100		70	3 hrs	30	3 hrs	6
9.	Environmental Education		1	100		70	3hrs	30	3 hrs	3

Assessment in the following subjects will be undertaken by the school in terms of grades on a five-point scale.

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PHYSICS (Code No - 042)

- 6) Physics (XI) Part-I : NCERT
- 7) Physics (XI) Part –II : NCERT
- 8) Laboratory Manual Physics Book & File : J.B.D Publication.
B/S Kamal Hospital, Near Doaba Chowk, Industrial Area, Industrial Area, Jalandhar, Punjab 144004
- 9) Reference for Physics : Pardeep’s Publication
Jyoti Book Deepot Pvt. Ltd
295, Ibrahim Mandi, Karnal -132001

CHEMISTRY (Code No. 043)

- 10) Chemistry for Class-XI : NCERT Publications.
- 11) Comprehensive Chemistry Text Book : Modern Publication
MBD House, Railway Road, Jalandhar City
- 12) Chemistry Practical Note Book for Class-XI : Effectual Chemistry
Jyoti Book Deepot Pvt. Ltd
295, Ibrahim Mandi, Karnal -132001 (Haryana)

BIOLOGY (Code No. - 044)

- 13) Biology for Class-XI : NCERT
- 14) Biology Lab Manual For class-XI : Valcun Publication Ring Road A-2
Naraina Vihar, Delhi,
- 15) Reference for Biology : Pardeep Publication, Circular Road, opp. Sitla Mandir, Jalandhar-144 008 (Pb.)

PUNJABI (Code No. 104)

- 16) ਕਾਵਿ ਰੰਗ : Vichar Publication, Bikrampur Jalandhar
- 17) ਵਾਰਤਕ ਰਿਸ਼ਮਾਂ : Vichar Publication,
Adda Hushiarpur Chownk, Jalandhar
- 18) ਰਿਸਤੇ ਨਾਟਕ : Vichar Publication,
Adda Hushiarpur Chownk, Jalandhar

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ENVIRONMENTAL EDUCATION

One Paper (Theory) Three Hours 70 Marks

Unit:

1. Man and Environment
 2. Environment and Development
- Unit: 3 & 4 are not in syllabus.

PRACTICAL

30 Marks

1. Project Work
2. Case Studies or Surveys

OR

Participation in and drives for community mobilisation.

DIVINITY

Ardaas, Mool Mantar, Japji Sahib, Academy Morning Prayer

RECOMMENDED BOOKS

ENGLISH CORE : (CODE NO. 301)

- | | | |
|-----------------------------------|---|---|
| 1) Hornbill – Text Book | : | Published by N.C.E.R.T. New Delhi. |
| 2) Snapshots-Supplementary Reader | : | Published by N.C.E.R.T. New Delhi. |
| 3) BBC | : | Brajindra Book Company, 21 Chhoti Market, Model Town, Karnal-132001 |

MATHEMATICS (Code No. 041)

- | | | |
|----------------------------|---|------------------|
| 4) Mathematics | : | NCERT |
| 5) Xact Mathematics series | : | Vinesh Publisher |

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English Core (Code No-301)

One Paper

Three Hours

Marks: 100

A	Reading Skills	20
B	Writing Skills and Grammar	30
C	Literary Text books and long reading text/novel	30
D	Assessment of speaking and listening skills will be for 20 marks. It is recommended that listening & speaking skills should be regularly practice in the class.	20

SECTION - A

READING COMPREHENSION

45 Periods

• Very short answer +/- Short answer and MCQ type questions:

There shall be two unseen passages (including poems) with a variety of questions like objective type questions and Multiple choice questions, including 04 marks for vocabulary such as word formation and inferring meaning.

Multiple Choice Questions (1 X 6 =6 marks), objective type Questions (1 X 6 =6 marks), 01 short answer questions(3 X 1 = 3 marks), 01 long answer question (5 X 1 = 5 marks)

The range of the two passages including a poem or a santza , should be 900 -1000 words as per the following details:

1. The passage of 550-600 words in length will be used for note-making and summarising.
2. The passage of 350-400 words in length will be used to test comprehension, interpretation and Inference.

An unseen poem of 28-35 lines to test comprehensive, interpretation and inference.

The passages as given above could be of any one of the following types:

- **Factual passages**, e.g., illustrations, description, reports
- **Discursive passages** involving opinion, e.g., argumentative, persuasive
- **Literary passages** e.g. extracts from fiction, biography, autobiography, travelogue, etc. In the case of a poem, the text may be shorter than the prescribed word limit.

SECTION B

WRITING SKILLS AND GRAMMAR

Writing

Short Answer Questions: Based on notice/ poster/ advertisement

60 Periods

04 Marks

- **Two Long Answer Questions:** Letters based on verbal/visual input.

- **It would cover all types of letters. Letter types may include:**

- (a) business or official letters (for making enquiries, registering complaints, asking for and giving information, placing orders and sending replies)
- (b) letters to the editor (giving suggestions/opinions on an issue)
- (c) application for a job with a bio-data or resume
- (d) letter to the school or college authorities, regarding admissions, school issues, requirements/ suitability of courses, etc.

- **Very Long Answer Question:** Composition in the form of article, speech, report writing or a Narrative-

08 Marks

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GRAMMAR

Different grammatical structures in meaningful contexts will be tested. Item types will include gap filling, sentence re-ordering, dialogue completion and sentence transformation. The grammar syllabus will include determiners, tenses, clauses, modals and Change of Voice. These grammar areas will be tested through 06 objective **type questions on the following:**

- Error Correction, editing tasks,
- Re - ordering of sentences,
- Transformation of sentences

SECTION C

LITERATURE

70 Periods

Questions from the prescribed texts to test comprehension at different levels: literal, inferential and evaluative will be asked.

1. **Two Objective type Questions out of three** - Based on an extract from poetry to test reference to context comprehension and appreciation. - (1 X 2 = 2 Marks)
- **Five Short Answer Questions out of six**-(3 questions should be from Hornbill) Based on prose, poetry and plays from both the texts. - (2 X 5 = 10 Marks)
- **One Long Answer Question out of two from Hornbill** –(to be answered in 120-150 words) Based on prescribed texts to test global comprehension and extrapolation beyond the texts. - (6 Marks)
- **One Long Answer Questions out of two from Snapshots** – (to be answered in 120-150 words) Based on theme, plot, incidents or events to test global comprehension and extrapolation beyond the texts. - (6 Marks)
- **One Long Answer Question out of two from Hornbill** - – (to be answered in 120-150 words) Based on understanding appreciation, analysis and interpretation of the characters/ events/ episodes/ incidents.

Month Wise Syllabus

April	May	June- July
L-1 (Hornbill) L-1, 2 (Snapshot), Writing Skill- Notice, Article, Letter to editor, Grammar – determiners	L-2 (Hornbill),L-3 (Prose+ Poem) L-3 (Snapshot), Writing Skill- poster, Adv. Grammar – Tenses, Modals	L-4 (Hornbill) (Prose+ Poem) L-4 (Snapshot), Writing Skill-Palcing an order & sending,replies,Complaint Letter Grammar –Modals, Preposition, Active/Passive

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INFORMATION PRACTICES (CODE NO-065)

Unit	Unit Name	Marks	Period	
		Theory	Theory	Prac.
1.	INTRODUCTION TO COMPUTER SYSTEM	05	03	02
2.	INTRODUCTION TO PYTHON PROGRAMMING	30	45	35
3.	DATA HANDLING	10	20	15
4.	DATA MANAGEMENT	15	30	20
5.	SOCIETY, LAW AND ETHICS	10	10	00
		70	108	72

PRACTICALS

Evaluation of Practical Examination

S.No.	Description	Marks
1	Problem solving using arithmetic operations, conditional statements and iterations with the help of a Python program 60% logica + 20% documentation + 20% code Quality. (To be tested on the day of the final exam)	6
2	Problem Solving using numPy (To be tested on the day of the final exam)	4
3	SQL- 5 Queries based on single table (To be tested on the day of the final exam)	5
4	Record File <ul style="list-style-type: none"> • Minimum 20Python Programs • Minimum 20SQL Queries 	6
5	Viva Voce	4
6	Project using the concepts learnt in the course	5
	Total	30

Month Wise Syllabus

Subject	April	May	June-July	Aug	Sept.	Oct.	Nov.	Dec.
Informat ion Practices	Unit-I (L-1,2)	Unit-I,II (L-3,4)	Unit-II (L-5,6,7,11)	Unit-II (L-8, 9,10)	Revision Exam	Unit-III (L-10, 11,12)	Unit-IV (L-13,14,15) Unit-IV IT Application	Unit-IV (L-16, 17,18)

Note: Class Tests are must to be taken Fortnightly. Revision should be done side by side.

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UNIT-VIII Fundamental of Anatomy and Physiology & Kinesiology in Sports

- Definition and importance of Anatomy, Physiology and Kinesiology
- Function of skeleton system, Classification of bones and types of joints
- Properties and functions of Muscles
- Function and structure of Respiratory System and circulatory System
- Equilibrium- Dynamic & Static and Centre of Gravity and its application in Sports

UNIT-IX Psychology & Sports

- Definition and importance of psychology in Physical Education and Sports
- Define and differentiate between 'Growth and Development'
- Developmental characteristics at different stages of Development
- Adolescent problems and their management

UNIT-X Training and Doping in Sports

- Meaning and Concept of Sports Training
- Principles of Sports Training
- Warming up and limbering down
- Skill, Technique and Style
- Concept & classification of doping
- Prohibited Substances & their side effects
- Dealing with alcohol and substance abuse

Practical

**Max. Marks 30
No. of Periods 60**

- | | |
|--|-----------------|
| <i>01 Physical Fitness (TEST)</i> | <i>06 Marks</i> |
| <i>02 Proficiency in Games and Sports
(Skill of any one individual Game of choice from the given list**)</i> | <i>07 Marks</i> |
| <i>03 Yogic Practices</i> | <i>07 Marks</i> |
| <i>04 Record File**</i> | <i>05 Marks</i> |
| <i>05 Viva Voce (Health/ Games & Sports/ Yoga)</i> | <i>05 Marks</i> |

Record fill shall include:

Practical 1: Labelled diagram of 400M Track & Field with computations.

Practical 2: Computation of BMI from family or neighbourhood & graphical representation of the data.

Practical 3: Labelled diagram of field & equipment of any one game of your choice out of the above list.

Practical 4: List of current National Awardees (Dronacharya Award, Arjuna Award & Rajiv Gandhi Khel Ratan Award)

Practical 5: Pictorial presentation of any five Asanas for improving concentration.

Month Wise Syllabus

Sub	April	May	June-July	Aug	Sept	Oct	Nov	Dec
Phy Edu	U-1,2	U-3	U-4	U-5	Exam	U-6,7	U-8,9	U-10

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Month wise syllabus:

Oct.	Nov.	Dec.
L-5, L-6 (Prose+ Poem) (Hornbill), L-5 (Snapshot) Grammar – Practice from BBC (clauses) error correction, re-ordering, Transformation of sentence. Writing Skill- Letter (Making enquires) speech	L-7(Hornbill), L-6 (Snapshot), Writing Skill- 1)Asking for and giving information (letter), 2)Report Writing. Grammar – Practice from BBC	L-8(Hornbill), L-7,8 (Snapshot), Writing Skill- Job application, Letter to School/ College regarding admission, School issues, requirement, suitability of courses.

MATHEMATICS (CODE NO-041)

One Paper

Three hours

100 marks

Units

- I. Sets and Functions
- II. Algebra
- III. Coordinate Geometry
- IV. Calculus
- V. Mathematical Reasoning
- VI. Statistics and Probability

Total

Marks

- 23
- 30
- 10
- 05
- 02
- 10

80

UNIT-I: SETS AND FUNCTIONS

- Sets
- Relations & Functions
- Trigonometric Functions.

PERIODS

- 20
- 20
- 20

UNIT-II: ALGEBRA

- Principle of Mathematical Induction
- Complex Numbers and Quadratic Equations
- Linear Inequalities
- Permutations & Combinations
- Binomial Theorem
- Sequence and Series.

- 10
- 15
- 15
- 10
- 10
- 10

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UNIT-III: COORDINATE GEOMETRY

Straight Lines	09
Conic Sections	20
Introduction to Three-dimensional Geometry.	10

UNIT-IV: CALCULUS

Limits and Derivatives	30
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UNIT-V: MATHEMATICAL REASONING

Mathematical Reasoning	10
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UNIT-VI: STATISTICS & PROBABILITY

Statistics	15
Probability	13

Internal Assessment: 20 Marks

- **Periodic Tests(Best 2 out of # Tests Conducted) 10 Marks**
- **Mathematics Activities 10 Marks**

Month wise syllabus:

Subject	April	May	June- July	Aug	Sept.
Maths	1. Sets	1. Principle of mathematics Induction 2. Complex Numbers 3. Linear inequalities	1. Binomial Theorem 2. Permutation & Combinations 3. Relation & functions	1. Stastics 2. Probability	Revision + Exam

Oct.	Nov.	Dec.	Jan
1. Straight 2. Conic Sections	1. Introduction to three Dimension 2. Mathematics Reasoning	1. Trigonometry	1. Sequence & Series 2. Limits & Derivatives

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PHYSICAL EDUCATION

(Code No.-048)

70 Marks

Theory

- UNIT-I Changing Trends and Career in Physical Education**
 - Meaning & definition of Physical Education
 - Aims & Objectives of Physical Education
 - Career option in Physical Education
 - Competitions in various sports at national and international level
 - Khelo-India Program
- UNIT-II Olympic Value Education**
 - Olympics, Paralympics and special Olympics
 - Olympic Symbols, Ideals, Objectives and values of Olympism
 - International Olympic committee
 - Indian Olympic Association
- UNIT-III Physical Fitness, Wellness and Lifestyle**
 - Meaning and importance of Physical Fitness, Wellness and Lifestyle
 - Components of Physical Fitness and Wellness
 - Components of Health related fitness.
- UNIT-IV Physical Education & Sports for Differently Abled**
 - Aims & objectives of Adaptive Physical Education
 - Organization promoting Adaptive Sports (Special Olympics Bharat; Paralympics; Deaflympics)
 - 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 and Importance of Yoga
 - Elements of Yoga
 - Introduction to-Asanas, Pranayam, Meditation and Yogic Kriyas
 - Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Shashankasana, Naukasana (Tree Pose), Garudasana (Aagle pose))
 - Relaxation Techniques for improving concentration –Yog-nidra
- UNIT-VI Physical Activity & Leadership Training**
 - Leadership Qualities & role of a leader
 - Creating leaders through Physical Education
 - Meaning, objectives & types of Adventure Sports (Rock Climbing, Tracking, River Rafting Mountaineering, Surfing and Para Gliding
 - Safety measures to prevent sports injuries
- UNIT-VII Test and Measurement & Evaluation**
 - Define Test, Measurement & Evaluation
 - Importance of Test, Measurement & Evaluation in Sports
 - Calculation of BMI & Waist –Hip Ratio
 - Somato Types (Endomorphy, Mesomorphy & Ectomorphy)
 - Measurement of health related fitness

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- II. ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਰੂਪ - ਕਵਿਤਾ ਅਤੇ ਨਾਟਕ (ਵਿਕਾਸ ਤੇ ਨਿਕਾਸ) 08
 ਭਾਸ਼ਾ 40
- III. ਅਡਵਾਂਸ ਪੜ੍ਹਨ ਕੌਸ਼ਲ 20
 ਜਾਣਕਾਰੀ ਭਰਪੂਰ ਇੱਕ ਅਣਡਿੱਠਾ ਪੈਰਾ ਤੇ ਉਸ ਨਾਲ ਸੰਬੰਧਤ 5 ਪ੍ਰਸ਼ਨ
- IV. ਪ੍ਰਭਾਵਸ਼ਾਲੀ ਲਿਖਣ ਕੌਸ਼ਲ
 ਇਸ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਪ੍ਰਸ਼ਨ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਪਰਖੇ ਜਾਣਗੇ
 1 ਅਖਬਾਰਾਂ ਲਈ ਰਿਪੋਰਟ ਰਚਨਾ (100 ਸ਼ਬਦ) (ਚੋਣ ਅਧਾਰਿਤ)
 2. ਸਮਾਜਿਕ, ਸੱਭਿਆਚਾਰਕ ਅਤੇ ਮਨੋਰੰਜਨ ਵਿਸ਼ੇ 200-250 ਸ਼ਬਦਾਂ ਵਿੱਚ ਲੇਖ ਲਿਖੋ। (ਚੋਣ ਅਧਾਰਿਤ)
- V. ਪਿੰਗਲ ਦੇ ਰੂਪ ਅਤੇ ਵਿਆਕਰਨ 20
1. ਅਲੰਕਾਰ- ਅਨੁਪਾਸ, ਰੂਪਕ, ਉਪਸਾ (ਪਰਿਭਾਸ਼ਾ ਤੇ ਉਦਾਹਰਨ (ਛੋਟੇ ਪ੍ਰਸ਼ਨ)) 4
 2. ਰਸ- ਸ਼ਿੰਗਾਰ ਰਸ, ਹਾਸ ਰਸ, ਕਰੁਣਾ ਰਸ (ਪਰਿਭਾਸ਼ਾ ਤੇ ਉਦਾਹਰਨ (ਛੋਟੇ ਪ੍ਰਸ਼ਨ)) 4
 3. ਅਲੰਕਾਰ ਤੇ ਰਸ (ਬਹੁਵਿਕਲਪੀ) 3
 4. ਅਖਾਣ- ਓ ਤੋਂ ਹ ਤੱਕ (1) ਅਖਾਣ (ਛੋਟੇ ਪ੍ਰਸ਼ਨ) (2) ਅਖਾਣ (ਬਹੁਵਿਕਲਪੀ) 5
 5. ਸ਼ਬਦ ਸੁੱਧੀ 5
 (1) ਅਸੁੱਧ ਸ਼ਬਦਾਂ ਨੂੰ ਸੁੱਧ ਕਰਨਾ (ਛੋਟੇ ਪ੍ਰਸ਼ਨ)
 (2) ਸੁੱਧ ਸ਼ਬਦ ਚੁਣੇ

ਨਿਰਧਾਰਕ ਪੁਸਤਕਾਂ

Punjabi	April	May	June	July
ਕਾਵਿ-ਕਮਾਈ	ਗੁਰੂ ਰਾਮਦਾਸ ਜੀ	ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ	ਬੁੱਲ੍ਹੇ ਸ਼ਾਹ	
ਰਿਸ਼ਤੇ	-	-	ਪੜ੍ਹਨਾ	
ਵਾਰਤਕ ਰਸਮਾਂ	ਪਾਠ- 1	ਪਾਠ- 2	ਪਾਠ- 3	ਪਾਠ-5
ਵਿਆਕਰਨ	ਅਲੰਕਾਰ	ਰਸ		
ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਰੂਪ	---	ਕਵਿਤਾ	---	---

Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
ਚਰਨ ਸਿੰਘ ਸ਼ਹੀਦ, ਪ੍ਰੋ : ਮੋਹਨ ਸਿੰਘ	Exam + Revision	ਵਾਰਿਸ਼ ਸ਼ਾਹ	ਚਰਨ ਸਿੰਘ ਸ਼ਹੀਦ	ਬਚਨ ਬੇਦਿਲ	
Revision		ਪਾਠ 04	ਪਾਠ 05	ਪਾਠ 06	ਪਾਠ 12
ਵਿਆਕਰਨ		ਵਿਆਕਰਨ	ਵਿਆਕ-ਰਨ	ਵਿਆਕ-ਰਨ	ਵਿਆਕ-ਰਨ
ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਰੂਪ	--	--	ਨਾਟਕ	--	--

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PHYSICS (CODE NO. 042)

One Paper (Theory)	Three Hours	MARKS	70 marks PERIODS
UNIT			
I. Physical World and Measurement	}	23	10
II. Kinematics			24
III. Laws of Motion			14
IV. Work, Energy and Power	}	17	12
V. Motion of System of Particles and Rigid Body			18
VI. Gravitation	}	20	12
VII. Properties of Bulk Matter			24
VIII. Thermodynamics	}	10	12
IX. Behaviour of Perfect Gas & Kinetic Theory of gases			08
X. Oscillations & Waves			26
Total		70	

Practical (Periods 60)

1. The students will perform at least 15 Experiments [with a minimum of 6 from each section]
2. The students will perform at least 5 Activities [with a minimum of 2 each from section A and section B].
3. Report of a project to be carried out by the students.

Evaluation Scheme

Two experiments one from each section	8+8 Marks
Practical record (experiments & activities)	6 Marks
Record of Demonstration experiments	3Marks
Viva on experiments & activities	5 Marks
	30 Marks

PRACTICAL SCHEDULE: I TERM- SECTION A (Containing 8 Practicals)

II TERM- SECTION B (Containing 7 Practicals)

Month wise syllabus:

Subject	April	May	June - July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.- Feb
Physics	Unit-1	Unit-2	Unit-3 &Project	Unit-4 &5	Revision & Exam	Unit-6 & 7	Unit-7 Con. & U-8	Unit-9	U-10 (L- 1 to 3)

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CHEMISTRY (CODE NO-043)

Unit No.	Title	Marks
Unit I	Some basic Concepts of Chemistry	} 11
Unit II	Structure of Atom	
Unit III	Classification of Elements and Periodicity in Properties	04
Unit IV	Chemical Bonding and molecular Structure	} 21
Unit V	States of Matter: Gases and Liquids	
Unit VI	Chemical Thermodynamics	
Unit VII	Equilibrium	
Unit VIII	Redox Reactions	} 16
Unit IX	Hydrogen	
Unit X	S-Block Elements	
Unit XI	P-Block Elements	
Unit XII	Organic Chemistry –some basic Principles & Techniques	
Unit XIII	Hydrocarbons	} 18
Unit XIV	Environmental Chemistry	
	TOTAL	70

CHEMISTRY (PRACTICAL)

One Practical Paper Three Hours 30 marks 60 Periods

Evaluation Scheme for Examination

Volumetric Analysis	08 Marks
Salt Analysis	08 Marks
Content Based Experiment	06 Marks
Project Work	04 Marks
Class Record and Viva	04 Marks

Total 30 Marks

PRACTICAL SCHEDULE: I TERM- Content Based Experiments, Volumetric Analysis, Project

II TERM- Volumetric Analysis, Salt, Analysis

Month wise syllabus:

Subject	April	May	June -July	Aug	Sept.	Oct.	Nov.	Dec.	Jan.
Chemistry	Unit-1	Unit-1 con. & U-2	Unit-3,4	U-8,9,14	Revision & Exams	Unit-5,6	Unit-7,10	Unit-11,12	U-13

BIOLOGY
(CODE NO-044)

One Theory Paper
UNIT

Three Hours
MARKS

70 marks
PERIODS

1. Diversity in Living World	10	23
2. Structural organization in animals and plants	12	23
3. Cell: Structure and Function	14	34
4. Plant physiology	17	40
5. Human Physiology	17	40
	<u>70</u>	

::9::

PRACTICAL SYLLABUS : EXPERIMENTS :8, SPOTTING:10

Evaluation Scheme		
One Major Experiment Part A(Exp. No- 1,3,7,8)		5 Marks
One Minor Experiment Part A (Exp. No- 6, 9, 10,11,12,13)		4 Marks
Slide Preparation Part A (Exp No.- 2,4,5)		5 Marks
Spotting Part B		7 Marks
Practical Record+Viva Voce	} Credit to the students' work over the academic session may be given	4 Marks
Project Record+Vova Voce		5 Marks
Total		30 Marks

PRACTICAL SCHEDULE: I TERM- Experiments :4, Spotting:5

II TERM- Experiments :4 Spotting:5

Month wise syllabus:

Subject	April	May	June-July	Aug	Sept.	Oct.	Nov.	Dec.
Physical Education	Unit-3	Unit-4	Unit-5	Unit-5	Exam	Unit-5	Unit-2	Unit-1

PUNJABI
CODE NO.-104

One Paper

3 Hours

Marks 100

ਇਕਾਈ /ਸਿੱਖਣ ਦਾ ਖੇਤਰ	ਅੰਕ	ਪੀਰੀਅਡ
ਭਾਸ਼ਾ		
(ੳ) ਅਡਵਾਂਸ ਪੜ੍ਹਨ ਕੌਸ਼ਲ	05	10
(ਅ) ਪ੍ਰਭਾਵਸ਼ਾਲੀ ਲਿਖਣ ਕੌਸ਼ਲ	15	25
(ੲ) ਵਿਆਕਰਨ	20	40
(ਸ) ਸਾਹਿਤ	40	85
(ਹ) ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ (ਪ੍ਰੋਜੈਕਟ (10), ਸੁਣਨ, ਬੋਲਣ ਤੇ ਅਧਾਰਿਤ (5), ਲਿਖਤੀ(5))	20	

ਸਾਹਿਤ

ਅੰਕ ਪੀਰੀਅਡ

40

- ਕਵਿਤਾ ਅਤੇ ਨਾਟਕ
ਦਿੱਤੀਆਂ ਗਈਆਂ ਦੇ ਕਾਵਿ ਟੁਕੜੀਆਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ
06
- ਵਾਰਤਕ
ਦਿੱਤੇ ਗਏ 7 ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚੋਂ ਕਿਸੇ 5 ਦੇ ਉੱਤਰ ਦੇਣੇ
10
- ਨਾਟਕ
ਨਾਟਕ ਦੇ ਵਿਸ਼ੇ ਵਸਤੂ, ਪਾਤਰ ਚਿਤਰਨ ਅਤੇ ਕਥਾਨਕ ਸੰਬੰਧੀ ਦਿੱਤੇ 2 ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚੋਂ ਇੱਕ ਹੱਲ ਕਰਨਾ।
08
 - 4 ਪ੍ਰਸ਼ਨ } ਇਹ 8 ਪ੍ਰਸ਼ਨ ਧਾਠ-ਪੁਸਤਕ ਕਾਵਿ ਰੰਗ (1 x 4 = 4)
 - ਅਤਿ ਛੋਟੇ 4 ਪ੍ਰਸ਼ਨ } ਅਤੇ ਵਾਰਤਕ ਰਿਸ਼ਮਾਂ ਵਿੱਚੋਂ (1 x 4 = 4)

