



PRAYAAG INTERNATIONAL SCHOOL, PANIPAT
TERM WISE SYLLABUS
GRADE XI (SCIENCE)

SUBJECT: PHYSICS

TERM-1 MCQ BASED QUESTION PAPER

UNIT NAME	CHAPTERS	MARKS
PHYSICAL WORLD & MEASUREMENTS	CH-2 UNITS & MEASUREMENTS	20
KINEMATICS	CH-3 MOTION IN A STRAIGHT LINE CH-4 MOTION IN A PLANE	
LAWS OF MOTION	CH-5 LAWS OF MOTION	
WORK, ENERGY & POWER	CH-6 WORK, ENERGY & POWER	15
MOTION OF SYSTEM OF PARTICLES & RIGID BODY	CH-7 SYSTEM OF PARTICLES & ROTATIONAL MOTION	
GRAVITATION	CH-8 GRAVITATION	
TOTAL		35

TERM –II SUBJECTIVE BASED QUESTION PAPER

UNIT NAME	CHAPTERS	MARKS
PROPERTIES OF BULK MATTER	CH-9 MECHANICAL PROPERTIES OF SOLIDS	23
	CH-10 MECHANICAL PROPERTIES OF FLUIDS	
	CH-11 THERMAL PROPERTIES OF MATTER	
THERMODYNAMICS	CH-12 THERMODYNAMICS	
BEHAVIOUR OF GASES & KINETIC THEORY OF GASES	CH-13 KINETIC THEORY	12
OSCILLATIONS & WAVES	CH-14 OSCILLATIONS	

	CH-15 WAVES	
TOTAL (TERM-II)		35
PRACTICALS (TERM-I)		15
PRACTICALS(TERM-II)		15
GRAND TOTAL		100

SUBJECT: BIOLOGY

TERM-1 MCQ BASED QUESTION PAPER

UNIT NAME	CHAPTERS	MARKS
	CH-1-The Living World Ch-2-Biological Classification Ch-3-Plant Kingdom Ch-4-Animal Kingdom	15
II	CH-5-Morphology of Flowering Plants CH-7-Structural Organisation in Animals	8
III	CH-8- Cell: The unit of life Ch-9- Biomolecules	12
	PRACTICALS	15
TOTAL		50

TERM –II SUBJECTIVE BASED QUESTION PAPER

UNIT NAME	CHAPTERS	MARKS
III	CH-10-Cell cycle and cell division	5
IV	CH-13- Photosynthesis in Higher Plants Ch-14- Respiration in Plants Ch-15- Plant: Growth and Development	12
	CH-17- Breathing and Exchange of gases Ch-18- Body fluids and circulation Ch-19- Excretory Products and their Elimination Ch-20- Locomotion and Movement Ch-21- Neural control and coordination Ch-22-Chemical coordination and integration	18
	PRACTICALS	15
		50
(TERM-I)		50
(TERM-II)		50
GRAND TOTAL		100

TERM-1 MCQ BASED QUESTION PAPER (CHEMISTRY)

Sr. No	Unit Name	Marks
1	Unit-1 Some Basic Concepts of Chemistry	11
2	Unit-2 Structure of Atom	
3	Unit 3- Classification of Elements and Periodicity in Properties	04
4	Unit-4 Chemical Bonding and Molecular Structure	06
5	Unit-5 Redox Reaction	05
6	Unit-9 Hydrogen	
7	Unit-12 Organic Chemistry: Some Basic Principles and Techniques	09
	TOTAL	35
	PRACTICAL	15

TERM –II SUBJECTIVE BASED QUESTION PAPER

SUBJECT- CHEMISTRY

SR NO.	UNITS	WEIGHTAGE
1	UNIT- 5 States of Matter (Gases and Liquids)	15
2	UNIT-6 Chemical Thermodynamics	
3	UNIT-7 Equilibrium	
4	UNIT-10 s-block Elements	11
5	UNIT-11 p-block Elements	
6	UNIT-13 Hydrocarbons	09

	TOTAL (TERM I + II)	(35+35)
	PRACTICAL (TERM I+ II)	(15+ 15)
	GRAND TOTAL	100

SUBJECT – ENGLISH

SECTION	TERM I	MARKS
A	Reading Comprehension: <ul style="list-style-type: none"> • Unseen passage (factual, descriptive or literary/ discursive or persuasive) • Case Based Unseen (Factual) Passage 	8 + 5 = 13
B	Creative Writing Skills and Grammar: Short Writing Tasks <ul style="list-style-type: none"> • Notice Writing Long Writing Tasks • Business or Official Letters(Making enquiries, registering complaints, asking for or giving information, placing orders and sending replies) • Speech Grammar • Determiners • Tenses • Re-ordering of Sentences {MCQs on Gap filling/ Transformation of Sentences}	3 + 5 + 4 = 12
C	LITERATURE: Literary-prose/poetry extracts (seen- texts) comprehension and appreciation. (Two Extracts) Questions Based on Texts to assess comprehension and appreciation, analysis, inference, extrapolation HORNBILL: <ul style="list-style-type: none"> • The Portrait of a Lady (Prose) • A Photograph (Poem) • “We’re Not Afraid to Die... if We Can All Be Together” (Prose) • Discovering Tut: the Saga Continues • The Laburnum Top (Poem) • Landscape of the Soul (Prose) 	9 Marks for Hornbill + 6 Marks for Snapshots = 15 Marks

	SNAPSHOTS:	
	<ul style="list-style-type: none"> • The Summer of the Beautiful White Horse(Prose) • The Address (Prose) • Ranga’s Marriage (Prose) 	
	TOTAL	40
	ASL	10
	GRAND TOTAL	40 +10 =50

ENGLISH- TERM II

SECTION	TERM I	WEIGHTAGE (IN MARKS)
A	Reading Comprehension: <ul style="list-style-type: none"> • Unseen passage (factual, descriptive or literary /discursive or persuasive) • Unseen passage for Note Making and Summarizing 	8 + 5 = 13
B	Creative Writing Skills and Grammar: Short Writing Tasks <ul style="list-style-type: none"> • Posters Long Writing Tasks <ul style="list-style-type: none"> • Official Letters: e.g. to school/college authorities (regarding admissions, school issues, requirements / suitability of courses) • Debate Grammar <ul style="list-style-type: none"> • Determiners • Tenses • Re-ordering of Sentences {MCQs on Gap filling/ Transformation of Sentences } 	3 + 5 + 4 = 12
C	Literature: HORNBILL: <ul style="list-style-type: none"> • The Voice of the Rain (Poem) • The Ailing Planet: The Green Movement’s Role (Prose) • The Browning Version (Play) 	9 Marks for Hornbill + 6 Marks for Snapshots = 15 Marks

	<ul style="list-style-type: none"> • Childhood (Poem) • Silk Road (Prose) SNAPSHOTS: <ul style="list-style-type: none"> • Albert Einstein at School (Prose) • Mother's Day (Play) • Birth (Prose) 	
	TOTAL	40
	ASL	10
	GRAND TOTAL	40 + 10 = 50 MARKS

OPTIONAL SUBJECTS

PHYSICAL EDUCATION

TERM I MCQ BASED QUESTION PAPER

THEORY: 35 MARKS

PROJECT WORK: 15 MARKS

UNIT	CHAPTER NAME	MARKS
PARRT A (THEORY PART)	<u>Chapter 1</u> Changing trend and career in physical education <u>Chapter 2</u> Olympic value education <u>Chapter 3</u> Physical fitness, wellness & Lifestyle <u>Chapter 4</u> Physical education & Sports for CWSN (CHILDREN WITH SPECIAL NEEDS-DIVYAANG) <u>Chapter 5</u> Yoga	35
PARRT B (PRACTICAL PART)	<u>Project file</u> -Athletic Game , Yogic practice -Demonstration of yogic practice	15

	-Viva Voce (From project file)	
--	---------------------------------	--

TERM II SUBJECTIVE BASED QUESTION PAPER

UNIT	CHAPTER NAME	MARKS
PARRT A (THEORY PART)	<u>CHAPTER 7</u> Test measurement and evaluation <u>CHAPTER 8</u> Fundamentals of Anatomy, physiology & Kinesiology in sports <u>CHAPTER 9</u> Psychology & Sports <u>CHAPTER 10</u> Training and Doping in sports	35
PARRT B (PRACTICAL PART)	<u>Project File</u> <u>-About one sport/game of choice</u> <u>-Computation of BMI(</u> <u>Graphical representation of data)</u> <u>-List of national current</u> <u>awardees</u> <u>-- Viva Voce (From project file)</u>	15

MUSIC

MCQ Based Question Paper

Theory : 15 marks

Practical : 35 marks

Term-1

Unit - 1	Brief study of the following:Nada, Shruti, Swar,	3
----------	--	---

	Saptak.	
Unit - 2	Brief History of the following:Raga, Khayal	3
Unit - 3	Brief Study of Musical elements in Natya Shastra	3
Unit - 4	Tala Notation in Thah,Dugun and Chaugun :- Teentala,Ektala with Practical	3
Unit -5	Ragas:- Bhairavi and Bihag Theory and Practical	3

Term-2 Subjective Based Question Paper

Unit-1	Briefstudyofthefollowing: Thaat,Jati,Laya,Tala,Margi-Desi sangeet	3
Unit-2	Brief Study of Dhrupad and Tarana	3
Unit-3	Life Sketch of Tansen,V.N Bhatkhande and V.D Palusker	3
Unit-4	Knowledge of the Structure of Tanpura	3
Unit-5	Raag Bhimpalasi and tala ekgun dugun and Chaugan	3

SUBJECT: INFORMATICS PRACTICES

THEORY - 35 MARKS

PRACTICAL:15 MARKS

TERM -1 MCQ BASED QUESTION PAPER

UNIT	CHAPTER NAME	MARKS
Unit 1:Introduction to Computer System	Chapter-1: Computer System	10
Unit 2:Introduction to Python	Chapter-3: Brief Overview of Python Chapter-4: Working with Lists and Dictionaries	25
Practical	Python program (pen and paper) + Practical File + Viva	10+3+2=15

TERM II SUBJECTIVE BASED QUESTION PAPER

UNIT	CHAPTER NAME	MARKS
Unit 3:Database concepts and the Structured Query Language	Chapter-7: Database Concepts Chapter-8: Introduction to Structured Query Language	30
Unit 4:Introduction to the Emerging Trends	Chapter-2: Emerging Trends	5
Practical	SQL Queries (pen and paper) + Practical File + Viva	8+4+3=15

XI APPLIED MATHS 241

TERM – I OBJECTIVE TYPE

UNIT	CHAPTERS	MARKS
NUMBERS, QUANTIFIERS AND NUMERICAL APPLICATIONS	1.1 NUMBER THEORY 1.2 LOGRITHM AND ANTILOGRITHM 1.3 NUMERICAL APPLICATIONS	9
ALGEBRA	2.1 SET THEORY 2.2 RELATIONS 2.3 SEQUENCE AND SERIES	9
MATHEMATICAL REASONING	3.1 MATHEMATICAL AND LOGICAL REASONING	6
CALCULUS	4.1 FUNCTIONS	4
DESCRIPTIVE STATISTICS	5.1 DATA ANALYSIS 5.2 DATA INTERPRETATION 5.3 CORRELATION ANALYSIS	12
INTERNAL ASSESSMENT		10

TERM – II SUBJECTIVE TYPE

UNIT	CHAPTERS	MARKS
ALGEBRA (CONT)	1.1 PERMUTATIONS AND COMBINATIONS	6
CALCULUS (CONT)	2.1 LIMITS AND DERIVATIVES	6
PROBABILITY	3.1 PROBABILITY 3.2 BAYES THEOREM	8
FINANCIAL MATHEMATICS	4.1 SIMPLE INTEREST 4.2 COMPOUND INTEREST 4.3 ANNUITY 4.4 TAXATION 4.5 BILLS	15
COORDINATE GEOMETRY	5.1 STRAIGHT LINES 5.2 CIRCLES 5.3 PARABOLA	5
INTERNAL ASSESSMENT		10

XI MATHS 041

TERM-I OBJECTIVE TYPE

UNIT	CHAPTER	MARKS
SETS AND FUNCTIONS	1. SETS 2. 2. RELATIONS	11
ALGEBRA	5. COMPLEX NUMBERS 9. SEQUENCE AND SERIES	13
COORDINATE GEOMETRY	10. STRAIGHT LINES	6
CALCULUS	13. LIMITS	4
STATISTICS AND PROBABILITY	15. STATISTICS	6
INTERNAL ASSESSMENT		10

TERM-II SUBJECTIVE TYPE

UNIT	CHAPTERS	MARKS
SETS AND FUNCTIONS	3. TRIGONOMETRY	8
ALGEBRA	6. LINEAR INEQUALITIES 7. PERMUTATIONS AND COMBINATIONS	11
COORDINATE GEOMETRY	11. CONIC SECTIONS 12. THREE DIMENSIONAL GEOMETRY	9
CALCULUS	13. DERIVATIVES	6
STATISTICS AND PROBABILITY	16. PROBABILITY	6
INTERNAL ASSESSMENT		10

XI PSYCHOLOGY

TERM -1 MCQ BASED QUESTION PAPER

THEORY-35 MARKS

PRACTICAL-15 MARKS

UNITS	TOPICS	MARKS
1	What is Psychology?	10
2	Methods of Enquiry in Psychology	13
3	The Bases of Human Behaviour	12
	Total	35
Practical (Project)	15 Marks	

The students shall be required to undertake one project. The project would involve the use of different methods of enquiry and related skills.

1. Project File- 06 Marks
2. Presentation of Project- 06 Marks
3. Viva Voce (Project)- 03 Marks

TERM- 2 SUBJECTIVE BASED QUESTION PAPER

Theory- 35 Marks

Practical- 15 Marks

UNITS	TOPICS	MARKS
4	Human Development	9
5	Sensory, Attentional & Perceptual Processes	8
6	Learning	10
7	Human Memory	8
	Total	35

Term -2 Practical (15 Marks)

The students shall be required to conduct one experiment related to the topics covered in the course(e.g. Human Development, Learning, Memory etc.)

Practical Examination

1. Practical (Experiment)File- 05 Marks
2. Viva Voce (Experiment)- 03 Marks
3. Conduct of one experiment and report writing- 07 Marks (03 Marks for conduct of experiment and 04 Marks for report writing)

SUBJECT: Fine Arts(Painting)

TERM -1 MCQ BASED QUESTION PAPER

THEORY : 15 MARKS

PRACTICAL : TERM-1 : 35 MARKS

PAINTING COMPOSITION	25 MARKS
PORTFOLIO ASSESSMENT	10 MARKS

UNIT	CONTENT	WEIGHTAGE (IN MARKS)
UNIT 1	Pre-Historic rock paintings and art of Indus Valley	
1.	A. Pre-Historic Rock-Paintings Introduction 1) Period and Location 2) Study and appreciation of following b Prehistoric paintings: i. Wizard's Dance, Bhimbethaka	
	B. Introduction 1) Period and Location. 2) Extension: In about 1500 miles. i. Harappa & Mohenjo-daro (Now in Pakistan)	

	ii. Ropar, Lothal, Rangpur, Alamgirpur, Kali Bangan, Banawali and Dholavira (in India)	
2.	Study and appreciation of following: Sculptures and Terra cottas: i. Dancing girl (Mohenjo-daro) Bronze, 10.5 x 5 x 2.5 cm. Circa 2500 B.C. (Collection: National Museum, New Delhi). ii. Male Torso(Harappa) Red lime Stone, 9.2 x 5.8 x 3 cms. Circa 2500 B.C. (Collection: National Museum, New Delhi) iii. Mother Goddess (Mohenjo-daro) terracotta, 22 x 8 x 5 c Circa 2500 B.C. (Collection: National Museum, New Delhi).	8
3.	Study and Appreciation of following Seal: i. Bull (Mohenjo-daro) Stone (Steatite), 2.5 x 2.5 x 1.4 cm. Circa 2500 B.C. (Collection: National Museum, New Delhi). Decoration on earthen wares: Painted earthen-ware (Jar) Mohenjo-daro (Collection: National Museum, New Delhi).	
UNIT 2	Buddhist, Jain and Hindu Art (3rd century B.C. to 8th century A.D.)	
1.	General Introduction to Art during Mauryan, Shunga, Kushana (Gandhara and Mathura styles) and Gupta period:	
2.	Study and appreciation of following Sculptures: i. Lion Capital from Sarnath (Mauryan period) Polished sandstone, Circa 3rd Century B.C. (Collection: Sarnath Museum, U.P.) ii. Chauri Bearer from Didar Ganj (Yakshi) (Mauryan period) Polished sandstone Circa 3rd Century B.C.(Collection: Patna Museum, Bihar) iii. Seated Buddha from Katra Mound, Mathura-(Kushan Period-Mathura Style) Red-spotted Sand Stone, Circa 3rd Century AD. (Collection: Govt. Museum, Mathura) iv. Jain Tirathankara (Gupta period) Stone Circa 5th Century A.D. (Collection: State Museum, Lucknow U.P.)udy and appreciation of following Sculptures:	7

3.	Introduction to Ajanta Location Period, No of caves, Chaitya and Vihara, paintings and sculptures, subject matter and technique etc.	
	TOTAL	15


TERM II SUBJECTIVE BASED QUESTION PAPER

THEORY : 15 MARKS

PRACTICAL : TERM- II : 35 MARKS

NATURE AND OBJECT STUDY	25 MARKS
PORTFOLIO ASSESSMENT	10 MARKS

UNIT	CONTENT	WEIGHTAGE (IN MARKS)
UNIT 3	<p>Unit 3 Temple Sculpture, Bronzes and artistic aspects of Indo-Islamic Architecture</p> <p>Artistic aspects of Indian Temple sculpture (6th Century A.D. to 13th Century A.D.)</p> <p>1) Introduction to Temple Sculpture (6th Century A.D. to 13th Century A.D.)</p> <p>2) Study and appreciation of following Temple-Sculptures:</p> <p>i. Descent of Ganga (Pallava period, Mahabalipuram, Tamil Nadu), granite rock Circa 7th Century A.D.</p> <p>ii. Trimuti (Elephanta, Maharashtra) Stone Circa 9th Century A.D.</p> <p>iii. Lakshmi Narayana (Kandariya Mahadev Temple) (Chandela period, Khajuraho, Madhya Pradesh) Stone Circa 10th Century A.D.</p> <p>iv. Cymbal Player, Sun Temple (Ganga Dynasty, Konark, Orrisa)</p>	8

	<p>Stone Circa 13th Century A.D.</p> <p>v. Mother and Child (Vimal-Shah Temple, Solanki Dynasty, Dilwara, Mount Abu; Rajasthan) white marble, Circa 13th Century A.D.</p>	
UNIT 4	Bronzes and Artistic aspects of Indo-Islamic architecture	
1.	Introduction to Indian Bronzes.	
2.	Method of casting (solid and hollow)	
3.	<p>Study and appreciation of following South Indian Bronze:</p> <p>i. Nataraj (Chola period Thanjavur Distt.,Tamil Nadu) 12th Century A.D. (Collection : National Museum, New Delhi)</p>	
	TOTAL	7
		15