



INDIAN SCHOOL AL WADI AL KABIR

CHAPTERWISE WEIGHTAGE – CLASS 12-Science Sections

ACADEMIC YEAR 2023 - 24

S.NO.	SUBJECTS
1	ENGLISH
2	MATHEMATICS
3	PHYSICS
4	CHEMISTRY
5	BIOLOGY
6	ENGINEERING GRAPHICS
7	COMPUTER SCIENCE
8	INFORMATICS PRACTICES
9	PHYSICAL EDUCATION
10	PSYCHOLOGY



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CLASS XII - ENGLISH

The section-wise mark distribution in the QP is as follows:

SECTION A- READING (22 MARKS)

SECTION B- WRITING (18 MARKS)

SECTION C-LITERATURE (40 MARKS)



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Class XII – MATHEMATICS (041)

Distribution of Marks unit wise

Unit	Unit Name	Marks
1	Relations and Functions	08
2	Algebra	10
3	Calculus	35
4	Vectors and Three – Dimensional Geometry	14
5	Linear Programming	05
6	Probability	08
	TOTAL	80
	Internal Assessment	20

- (i) No chapter wise weightage. Care to be taken to cover all the chapters
- (ii) Suitable internal variations may be made for generating various templates keeping the overall weightage to different form of questions and typology of questions same.

CLASS XII - MATHEMATICS



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CLASS XII - PHYSICS

CLASS XII (2023-24) PHYSICS (THEORY)

Time: 3 hrs.

Max Marks: 70

		Marks
Unit-I	Electrostatics	16
	Chapter-1: Electric Charges and Fields	
	Chapter-2: Electrostatic Potential and Capacitance	
Unit-II	Current Electricity	7
	Chapter-3: Current Electricity	
Unit-III	Magnetic Effects of Current and Magnetism	17
	Chapter-4: Moving Charges and Magnetism	
	Chapter-5: Magnetism and Matter	
Unit-IV	Electromagnetic Induction and Alternating Currents	8
	Chapter-6: Electromagnetic Induction	
	Chapter-7: Alternating Current	

Unit-V	Electromagnetic Waves	18
	Chapter-8: Electromagnetic Waves	
	Chapter-10: Wave Optics	
Unit-VI	Optics	12
	Chapter-9: Ray Optics and Optical Instruments	
	Chapter-10: Wave Optics	
Unit-VII	Dual Nature of Radiation and Matter	7
	Chapter-11: Dual Nature of Radiation and Matter	
Unit-VIII	Atoms and Nuclei	
	Chapter-12: Atoms	
	Chapter-13: Nuclei	
Unit-IX	Electronic Devices	7
	Chapter-14: Semiconductor Electronics: Materials, Devices and Simple Circuits	
Total		70



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CLASS XII - CHEMISTRY

CLASS XII (2023-24) (THEORY)

Time : 3 Hours

70 Marks

S.No.	Title	Marks
1	Solutions	7
2	Electrochemistry	9
3	Chemical Kinetics	7
4	d -and f -Block Elements	7
5	Coordination Compounds	7
6	Haloalkanes and Haloarenes	6
7	Alcohols, Phenols and Ethers	6
8	Aldehydes, Ketones and Carboxylic Acids	8
9	Amines	6
10	Biomolecules	7
	Total	70



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CLASS XII - BIOLOGY

CLASS XII (2023-24) (THEORY)

Time: 03 Hours

Max. Marks: 70

Unit	Title	Marks
VI	Reproduction	16
VII	Genetics and Evolution	20
VIII	Biology and Human Welfare	12
IX	Biotechnology and its Applications	12
X	Ecology and Environment	10
	Total	70



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CLASS XII - ENGINEERING GRAPHICS

COURSE STRUCTURE CLASS XII (2023-24)

One Paper (Theory): 3 Hours

70 Marks

S. No.	Unit Name	Marks
I	Isometric Projections of Solids	25
II	Machine Drawing A. Drawing of Machine parts B. Assembly Drawing and Dis-assembly drawings 1. Bearings 2. Rod joints 3. Tie-rod and Pipe joint	45



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CLASS XII - COMPUTER SCIENCE

Class XII-Computer Science

Distribution of Marks unit wise

Unit	Unit Name	Marks
1	Computational Thinking and Programming	40
2	Computer Network	10
3	Database Management	20
	Total	70



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CLASS XII - INFORMATICS PRACTICES

Class XII-Informatics Practices

Distribution of Marks unit wise

Unit	Unit Name	Marks
1	Data handling using pandas and data visualization	25
2	Database query using SQL	25
3	Introduction to computer networks	10
4	Societal impacts	10
	Total	70



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CLASS XII - PHYSICAL EDUCATION

COURSE STRUCTURE

UNIT NO.	UNIT NAME	THE WEIGHTAGE (MARKS) ALLOTTED
UNIT 1	Management of Sporting Events	05 + 04 b*
UNIT 2	Children and Women in Sports	07
UNIT 3	Yoga as Preventive measure for Lifestyle Disease	06+01 b*
UNIT 4	Physical Education & Sports for (CWSN)	04+04 b*
UNIT 5	Sports & Nutrition	07
UNIT 6	Test and Measurement in Sports	08
UNIT 7	Physiology & Injuries in Sport	04+04 b*
UNIT 8	Biomechanics and Sports	10
UNIT 9	Psychology and Sports	07
UNIT 10	Training in Sports	09
PRACTICAL (LAB)*	Including 3 Practical	30
TOTAL	Theory 10 + Practical 3	Theory 70 + Practical 30 = 100

Note: **b*** are the Concept based questions like Tactile diagram/data interpretation/case base study for visually Impaired Child



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CLASS XII - PSYCHOLOGY

PSYCHOLOGY CHAPTERWISE WEIGHTAGE 2023-24			
Units	Topics	Marks	
I	Variations in Psychological Attributes	13	
II	Self and Personality	13	
III	Meeting Life Challenges	9	
IV	Psychological Disorders	12	
V	Therapeutic Approaches	9	
VI	Attitude and Social Cognition	8	
VII	Social Influence and Group Processes	6	
TOTAL		70	