



JP INTERNATIONAL SCHOOL, GREATER NOIDA

SESSION 2019 – 20

CLASS – XII MEDICAL/NON-MEDICAL

PHYSICAL EDUCATION:

S. No.	Month	Chapters	Description
1.	March	Theory Unit-I, Planning in Sports <ul style="list-style-type: none"> • Meaning & Objectives of planning. • Various Committees & their Responsibilities; during a post) • Tournament - Knock-Out, League of Round Robin & Combination. • Procedure to draw fixtures, Knock-Out (Bye & Seeding) a League (Staircase & Cyclic) • Intramural & Extramural meaning. Objectives & its Significance. • Specific Sports Programme (Sports Day, Healthy Run, Run for Fun, Run for Specific Cause & Run for Unity). 	
2.	April	Unit-II, Sports & Nutrition <ul style="list-style-type: none"> • Balanced Diet & Nutrition: Macro & Micro Nutrients. • Nutritive & Non Nutritive Components of Diet. • Eating for weight Control A Healthy Weight, The Pitfalls of Dieting, Food Intolerance & Food Myths. • Sports nutrition & its effect on performance (fluid & meal intake, pre during & post competition) Food supplement for children.	

ENGLISH: CODE: (301)

BOOKS: FLAMINGO, VISTAS

S. No.	Month	Chapters	Description
1.	March	Prose: <ul style="list-style-type: none"> • The Last Lesson Poetry: <ul style="list-style-type: none"> • My Mother at Sixty-Six Vistas: <ul style="list-style-type: none"> • The Tiger King Writing Skills: <ul style="list-style-type: none"> • Notice, Articles, Unseen Comprehension 	
2.	April	Prose: <ul style="list-style-type: none"> • The Lost Spring Poetry: <ul style="list-style-type: none"> • An Elementary school Classroom in a slum Vistas: <ul style="list-style-type: none"> • The Enemy Writing Skills: <ul style="list-style-type: none"> • Notice, Letter to the editor 	

PAINTING (049):

S. No.	Month	Chapters	Description
1.	March	Theory : Rajasthani School of Art	
2.	April	Theory : Rajasthani School of Art Practical : Canvas Painting : Landscape study with water colour	

MATHS:

S. No.	Month	Chapters	Description
1.	March	Chapter: Vectors Chapter: Linear Programming	
2.	April	Chapter: Probability Chapter: Matrices	



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COMPUTER SCIENCE:

BOOK NAME: COMPUTER SCIENCE WITH C++

PUBLISHER: DHANPAT RAI & PUBLICATION

WRITER: SUMIT ARORA

S. No.	Month	Chapters	Description
1.	March	<p>Chapter: Implementation of Object Oriented Programming Concepts in C++:</p> <ul style="list-style-type: none"> Definition of a class, Members of a class-Data Members and Member Functions (methods). Using Private and Public Visibility modes, default visibility mode (private); Member function definition; insideclass definition and outside class definition using scope resolution operator (::); Declaration of objects as instance of a class; accessing members from objects(s), Objects as function argements - pass by value and pass by reference; <p>Construction and Destructor:</p> <ul style="list-style-type: none"> Constructor: Special Characteristics, Declaration and Definition of a constructor, Default constructor. Overloaded Constructors, Copy Constructor, Constructor with default arguments; Destructor: Special Characteristics, Declaration and definition of destructor; 	
2.	April	<p>Chapter: Inheritance (Extending Classes)</p> <ul style="list-style-type: none"> Concept of Inheritance, Base Class, Derived Class, Defining derived classes, protected visibility mode; Single level inheritance, Multilevel inheritance and Multiple inheritance, Privately derived, Publicity derived and Protectdly derived class, accessibility of members from oboects and within derived class; <p>Chapter: Databases Management System and SQL</p> <ul style="list-style-type: none"> Database Concepts: Introduction of database concepts and its need. Relation data model: Concept of domain, tuple, relation, key, primary key, alternate key, candidate key; General Concepts: Advantages of using SQL, Data Definition Langage and Data Manipulation Language; Data Types: Number/ Decimal, Character/ Varchar/ Varchar 2, Date: <p>SQL Commands:</p> <ul style="list-style-type: none"> Create Table, Drop Table, Alter Table, Update... Set..., Insert, Delete; Select, Distinct, From, Where, In, Between, Group By, Having, Order By; SQL functions: SUM, AVG, Count, MAX and MIN; Obtaining result (Select query) from 2 tables using equi-join, Cartesian Product and Union. 	

BIOLOGY: (044)

S. No.	Month	Chapters	Description
1.	March	<p>Chapter-1: Reproduction in Organism</p> <ul style="list-style-type: none"> Modes of reproduction, sexual asexual, binary fission, sporulation, budding, gemmule formation, fragmentation, vegetative propogation. Flower structure, microsporogenesis, mega sporogenesis, pollination, fertilization, Development of endosperm and embryo. seed formation, apomixis parthenocarpy, polyembryony. male and female reproductive systems, gametogenesis, fertilization, embryo development, parturition, lactation. <p>Chapter-2: sexual reproduction in flowering plants</p> <p>Chapter-3: Human reproduction</p>	
2.	April	Chapter-4: Reproductive health	



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S. No.	Month	Chapters	Description
		<ul style="list-style-type: none"> Prevention of STDs, birth control, contraception, MTP, infertility and ARTs Chapter-5: Genetics and evolution <ul style="list-style-type: none"> Mendelian inheritance, blood groups. sex determination, Mendelian disorders, sex linked diseases, syndromes, 	

CHEMISTRY: (043)

S. No.	Month	Chapters	Description
1.	March	Unit: Solution Experiments: Titration-KMnO ₄ /oxalic acid, KMnO ₄ /Mohr's salt.	
2.	April	Unit: Haloalkanes and Haloarenes. Unit: Alcohols, Phenols and Ethers. Unit: Polymers Experiments: Identification of Organic Functional Groups.	

PHYSICS:

S. No.	Month	Chapters	Description
1.	March	Unit-1: Electrostatics <ul style="list-style-type: none"> Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance Unit-2: Current Electricity <ul style="list-style-type: none"> Chapter–3: Current Electricity Practical: (1) Resistance Per cm (2) Specific resistance	
2.	April	Unit-3: Magnetic Effects of Current and Magnetism <ul style="list-style-type: none"> Chapter–4: Moving Charges and Magnetism. Chapter–5: Magnetism and Matter Unit-4: Electromagnetic Induction and Alternating Currents <ul style="list-style-type: none"> Chapter–6: Electromagnetic Induction Practical: (3) Resistance in Series (4) Resistance in Parallel	