Class Ten
Academic Program-2024 (Online)

Date & Day	Live Class (Online Smart Board)	Live Exam (Online)
14 January 2024 (Sunday)	Physics (P-13+14) : Chapter-11 (Current Electricity)	Basic Introductory Exam
15 January 2024 (Monday)	Biology (B-05+06) : Chapter-11 (Reproduction in Organism)	Daily Exam (P-13+14) MCQ (10×1=10); 10 min
16 January 2024 (Tuesday)	Math (M-21+22) : Chapter-10 (Distance and Elevation)	Daily Exam (B-05+06) MCQ (10×1=10); 10 min
17 January 2024 (Wednesday)	Chemistry (C-05+06) : Chapter-10 (Mineral R. : Metal-Nonmetal)	Daily Exam (M-21+22) MCQ (10×1=10); 10 min
18 January 2024 (Thursday)	Higher Math (H.M-07+08) : Chapter-06 (Inequality)	Daily Exam (C-05+06) MCQ (10×1=10); 10 min
20 January 2024 (Saturday)	Chapterwise Exam-01 : Math - Chapter-10 (Distance and Elevation) CQ (2×10=20); 50 min & MCQ (10×1=10); 10 min	
21 January 2024 (Sunday)	Physics (P-15+16) : Chapter-11 (Current Electricity)	Daily Exam (H.M-07+08) MCQ (10×1=10); 10 min
22 January 2024 (Monday)	Biology(B-07+08) : Chapter-11 (Reproduction in Organism)	Daily Exam (P-15+16) MCQ (10×1=10); 10 min
23 January 2024 (Tuesday)	Math (M-23+24) : Chapter-11 (Algebraic Ratio and Proportion)	Daily Exam (B-07+08) MCQ (10×1=10); 10 min
24 January 2024 (Wednesday)	Chemistry (C-07+08) : Chapter-10 (Mineral R. : Metal-Nonmetal)	Daily Exam (M-23+24) MCQ (10×1=10); 10 min
25 January 2024 (Thursday)	Higher Math (H.M-09+10) : Chapter-06 (Inequality)	Daily Exam (C-07+08) MCQ (10×1=10); 10 min
26 January 2024 (Friday)	Chapterwise Exam-02 : Chemistry - Chapter-10 (Mineral R. : Metal-Nonmetal) CQ (2×10=20); 50 min & MCQ (10×1=10); 10 min	
27 January 2024 (Saturday)	Chapterwise Exam-03 : Higher Math - Chapter-06 (Inequality) CQ (2×10=20); 50 min & MCQ (10×1=10); 10 min	
28 January 2024 (Sunday)	Physics (P-17+18) : Chapter-11 (Current Electricity)	Daily Exam (H.M-09+10) MCQ (10×1=10); 10 min
29 January 2024 (Monday)	Biology (B-09+10) : Chapter-11 (Reproduction in Organism)	Daily Exam (P-17+18) MCQ (10×1=10); 10 min
30 January 2024 (Tuesday)	Math (M-25+26) : Chapter-12 (S.S. Equations in 2 Variables)	Daily Exam (B-09+10) MCQ (10×1=10); 10 min
31 January 2024 (Wednesday)	Math (M-27+28) : Chapter-12 (S.S. Equations in 2 Variables)	Daily Exam (M-25+26) MCQ (10×1=10); 10 min
01 February 2024 (Thursday)	Higher Math (H.M-11+12) : Chapter-07 (Infinite Series)	Daily Exam (M-27+28) MCQ (10×1=10); 10 min
02 February 2024 (Friday)	Chapterwise Exam-04 : Physics Chapter-11 (Current Electricity) CQ (2×10=20); 50 min & MCQ (10×1=10); 10 min	
03 February 2024 (Saturday)	Chapterwise Exam-05 : Math - Chapter-11 (Algebraic Ratio and Proportion) CQ (2×10=20); 50 min & MCQ (10×1=10); 10 min	
04 February 2024 (Sunday)	Physics (P-19+20) : Chapter-12 (Magnetic Effects of Current)	Daily Exam (H.M-11+12) MCQ (10×1=10); 10 min
05 February 2024 (Monday)	Biology (B-11+12) : Chapter-11 (Heredity in Organisms)	Daily Exam (P-19+20) MCQ (10×1=10); 10 min
06 February 2024 (Tuesday)	Math (M-29+30) : Chapter-12 (S.S. Equations in 2 Variables)	Daily Exam (B-11+12) MCQ (10×1=10); 10 min
07 February 2024 (Wednesday)	Chemistry (C-09+10) : Chapter-11 (Mineral Resources : Fossils)	Daily Exam (M-29+30) MCQ (10×1=10); 10 min
08 February 2024 (Thursday)	Higher Math (H.M-13+14) : Chapter-07 (Infinite Series)	Daily Exam (C-09+10) MCQ (10×1=10); 10 min
09 February 2024 (Friday)	Chapterwise Exam-06 : Biology - Chapter-11 (Reproduction in Organism) CQ (2×10=20); 50 min & MCQ (10×1=10); 10 min	
10 February 2024 (Saturday)	Chapterwise Exam-07 : Higher Math - Chapter-07 (Infinite Series) CQ (2×10=20); 50 min & MCQ (10×1=10); 10 min	
11 February 2024 (Sunday)	Physics (P-21+22) : Chapter-12 (Magnetic Effects of Current)	Daily Exam (H.M-13+14) MCQ (10×1=10); 10 min
12 February 2024 (Monday)	ICT (ICT-01+02) : Chapter-05 (Multimedia and Graphics)	Daily Exam (P-21+22) MCQ (10×1=10); 10 min
13 February 2024 (Tuesday)	Math (M-13+14) : Chapter-08 (Circle)	Daily Exam (ICT-01+02) MCQ (10×1=10); 10 min
14 February 2024 (Wednesday)	Chemistry (C-11+12) : Chapter-11 (Mineral Resources : Fossils)	Daily Exam (M-13+14) MCQ (10×1=10); 10 min
15 February 2024 (Thursday)	Higher Math (H.M-23+24) : Chapter-10 (Binomial Expansion)	Daily Exam (C-11+12) MCQ (10×1=10); 10 min
16 February 2024 (Friday)	Chapterwise Exam-08 : Math - Chapter-12 (S.S. Equations in 2 Variables) CQ (2×10=20); 50 min & MCQ (10×1=10); 10 min	
17 February 2024 (Saturday)	Chapterwise Exam-09 : Physics - Chapter-12 (Magnetic Effects of Current) CQ (2×10=20); 50 min & MCQ (10×1=10); 10 min	
18 February 2024 (Sunday)	Math (M-15+16) : Chapter-08 (Circle)	Daily Exam (H.M-23+24) MCQ (10×1=10); 10 min
19 February 2024 (Monday)	ICT (ICT-03+04) : Chapter-05 (Multimedia and Graphics)	Daily Exam (M-15+16) MCQ (10×1=10); 10 min
20 February 2024 (Tuesday)	Math (M-17+18) : Chapter-08 (Circle)	Daily Exam (ICT-03+04) MCQ (10×1=10); 10 min
21 February 2024 (Wednesday) All classes and examinations will be closed due to International Mother Language Day		
22 February 2024 (Thursday)	Higher Math (H.M-25+26) : Chapter-10 (Binomial Expansion)	Daily Exam (M-17+18) MCQ (10×1=10); 10 min
23 February 2024 (Friday)	Chapterwise Exam-10 : ICT - Chapter-05 (Multimedia and Graphics) MCQ (15×1=15); 15 min	
24 February 2024 (Saturday)	Chapterwise Exam-11 : Higher Math - Chapter-10 (Binomial Expansion) CQ (2×10=20); 50 min & MCQ (10×1=10); 10 min	
25 February 2024 (Sunday)	Math (M-19+20) : Chapter-08 (Circle)	Daily Exam (H.M-25+26) MCQ (10×1=10); 10 min
26 February 2024 (Monday)	Higher Math (H.M-41+42) : Chapter-14 (Probability)	Daily Exam (M-19+20) MCQ (10×1=10); 10 min
27 February 2024 (Tuesday)	Higher Math (H.M-43+44) : Chapter-14 (Probability)	Daily Exam (H.M-41+42) MCQ (10×1=10); 10 min
01 March 2024 (Friday)	Chapterwise Exam-12 : Math - Chapter-08 (Circle) CQ (2×10=20); 50 min & MCQ (10×1=10); 10 min	
02 March 2024 (Saturday)	Chapterwise Exam-13 : Higher Math - Chapter-14 (Probability) CQ (2×10=20); 50 min & MCQ (10×1=10); 10 min	

Routine – 02, 03 upcoming...

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Syllabus – 01

Physics Syllabus

Chapter	Lecture	Discussed Topics (Lecture wise)
Chapter-11 (Current Electricity)	P-13	Electric current, force and potential difference, Conductor, insulator and semiconductor, Direction of electric flow
	P-14	Relation between potential difference and electricity, Ohm's Law, Resistance, Specific resistance, and related mathematical problems
	P-15	Circuit, Equivalent resistance (Series circuit and parallel circuit)
	P-16	Mathematical problems on circuit and equivalent resistance
	P-17	Electric power, electrical supply, mathematical problems on electric Power
	P-18	Safe use of electricity, Design of circuit in residence, review of mathematical problems
Chapter-12 (Magnetic Effects of Current)	P-19	Magnet, magnetic effects of current, Solenoid
	P-20	Electromagnet, effect of magnet on a current carrying wire
	P-21	DC motor, electromagnetic induction, Generator
	P-22	Transformer and mathematical problems

Chemistry Syllabus

Chapter	Lecture	Discussed Topics (Lecture wise)
Chapter-10 (Mineral Resources : Metal-Nonmetal)	C-05	Mineral resources, Rocks, Minerals & Ores, Metal Extraction (Crushing the ores, Condensation of ores)
	C-06	Metal Extraction (Conversion of condensed ore to oxides, Conversion of Metallic oxides to free metals), Purification of metals, Selected alloys
	C-07	Symptoms, causes and prevention of corrosion of certain metals and alloys, Recycling of metals
	C-08	Nonmetal minerals (Sulphur, Use of Sulphur, Sulphur di oxide, Sulphuric acid, Preparation of sulphuric acid by contact method)
Chapter-11 (Mineral Resources : Fossils)	C-09	Fossil Fuel, Natural gas, Constituents of petroleum & their separation, Hydrocarbon (Aliphatic Hydrocarbon) Availability of organic compounds
	C-10	Functional group & Homologous series
	C-11	Aromatic Hydrocarbon, Saturated Hydrocarbons (Alkane)
	C-12	Preparation of Alkane & Characteristic Reactions

Math Syllabus

Chapter	Lecture	Discussed Topics (Lecture wise)
Chapter-08 (Circle)	M-13	Circle arc, inscribed angle, central angle, Theorem- 20, 21, 22
	M-14	Exercise – 8.2
	M-15	Theorem related to quadrilateral inscribed in a circle (23, 24), Exercise-8.3 (1, 2)
	M-16	Exercise – 8.3 (3-7)
	M-17	Secants of Circle, Tangents, Common Tangents, Theorems (25, 26, 27)
	M-18	Exercise – 8.4 (1-6)
	M-19	Constructions related to Circle (6-11), Exercise- 8.5 (12, 13, 14)
	M-20	Exercise- 8.5 (9-11, 15-19)
Chapter-10 (Distance and Elevation)	M-21	Angle of elevation and angle of declination, Example, Exercise-10 (1-13)
	M-22	Exercise-10 (14-21), Work
Chapter-11 (Algebraic Ratio and Proportion)	M-23	Continued Proportions, Ratio, Exercise-11.2 (1-14)
	M-24	Exercise-11.2 (15-25)
Chapter-12 (Simple Simultaneous Equations in Two Variables)	M-25	Simple simaltaneous equations, Compatibility for the solutions of simple simaltaneous equations in two variables, Exercise-12.1
	M-26	Solving Simple Equations (Substitution Method, Elimination Method), Exercise-12.2 (1-6)
	M-27	Solving Simple Simultaneous Equations (Cross Multiplication Method), Exercise- 12.2 (7-12)
	M-28	Graphical Method, Exercise – 12.3
	M-29	Formation of simaltaneous equations from real life problems and solution.Exercise-12.4(10-19)
	M-30	Exercise – 12.4 (20-24)

ICT Syllabus

Chapter	Lecture	Discussed Topics (Lecture wise)
Chapter-05 (Multimedia and Graphics)	ICT-01	Concept of Multimedia, Presentation Software, Opening Power Point and Creating a Slide, Saving Presentation, Adding New Slide, Slide Show, Changing Slide Background, Inserting Pictures, Adding Transition, Applying Transition Separately in Text, Adding video in slide
	ICT-02	Graphics (Importance of Graphics, Opening the Photoshop Program, creating a new file), Introduction to the Photoshop Toolbox and Palette, Acquaintance of the Selection and Move tool
	ICT-03	Revision of Selection and Move Tool, Shifting Selection, Fill Color in the Floating Selection, the use of Feather, Selection using Lasso Tool and Polygonal Lasso Tool Stroke, Saving New File, Layer, adding new Layer, Thumbnail Icon, Clustering, Integrating and Segregating Palette, Making Layer Object, creating a Text Layer, Transferring Pictures from One file to Another, Fixing Target Layer, Changing the Opacity of the Layer, Removing Layer, Combining or Merging Layers.
	ICT-04	Cut, Copy, Paste and Paste into, the use of Crop tool, cropping up Tilted Picture, Use of Eraser Tool, creating Blend with Gradient tool, Creating Linear Blend, Editing Gradient, Adding and Removing New color and Color Stops, Adjusting Brightness and Contrast of Picture

Higher Math Syllabus

Chapter	Lecture	Discussed Topics (Lecture wise)
Chapter-06 (Inequality)	H.M-07	Concepts of inequalities, Examples, Exercise-6.1 (Complete), Uses of inequalities, Examples of Exercise-6.2
	H.M-08	Exercise-6.2 (1-11)
	H.M-09	Graph of inequalities; Exercise-6.3 (9-11)
	H.M-10	Linear inequality with two variables, Example, Exercise 6.3 (12-17)
Chapter-07 (Infinite Series)	H.M-11	Sequences, Infinitive series, Common terms, Examples, Exercise-7 (1-4, 6, 9, 10)
	H.M-12	Proof of the formula of sum of infinite series, Exercise-7 (5, 7, 8, 11)
	H.M-13	Exercise-7 (12, 13, 14)
	H.M-14	Exercise-7 (15, 16, 17)
Chapter-10 (Binomial Expansion)	H.M-23	Binomial expansion of $(1 + y)^n$, Use of Pascal's Triangle, Example (1, 2, 3), Exercise- 10.1 (1, 2, 4, 5, 6)
	H.M-24	Relation between ^nC_r and $n!$, Example (4), Exercise-10.1 (3), Binomial expansion of $(x + y)^n$
	H.M-25	$n!$ and finding the value of ^nC_r, finding the $(r+1)$th term, Exercise-10.2 (10-14); HW: Example (10)
	H.M-26	Exercise-10.2 (15-19)
Chapter-14 (Probability)	H.M-41	Some concepts related to Probability, Logic Based Probability, Data based probability, Examples, Work, Exercise-14 (1-6)
	H.M-42	Sample space and probability determination of probability-by-probability Tree, Exercise-14 (7-14)
	H.M-43	Mutually exclusive events, mutually non-exclusive events, Concept of exclusive events (When to multiply / add), Exercise-14 (15-18)
	H.M-44	Chapter review and creative questions related to probability

Biology Syllabus

Chapter	Lecture	Discussed Topics (Lecture wise)
Chapter-11 (Reproduction in Organism)	B-05	Concept of reproduction in organism and its significance, Plant reproduction (Reproductive organ: Flower, Different parts of a flower)
	B-06	Inflorescence, Pollination, Medium of pollination
	B-07	Microsporogenesis, Megasporogenesis
	B-08	Fertilization, Development of new sporophyte, Origin of fruits
	B-09	Animal reproduction and fertilization, The basic significance of fertilization, Role of hormone in human reproduction
	B-10	Development of the embryo, Placenta, Fetal membrane, Reproduction related disease (AIDS)
Chapter-12 (Heredity in Organisms and Evolution)	B-11	Heredity in organism, Components carrying (heredity materials) behavioral features to the offspring from generation to generation, Chromosome, DNA
	B-12	RNA, Gene, DNA replication

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