

Class Nine Academic Program 2025

[New Batch- Online/Combo]

Class & Exam Routine Last Part [English Version]

Date & Day	Live Class- 01 (7:00pm- 8:00pm)	Live Class- 02 (9:30pm-10:30pm)	Live Exam	Online- 9:00am to 11:55pm Offline- 9:00am to 5:00pm
31 August 2025 (Sunday)	B-36 Biology: Chapter-08	HM-38 H.Math: Chapter-09	Daily Live Exam M-32 MCQ (10×1=10); 10 min. Daily Live Exam P-34 MCQ (10×1=10); 10 min.	
01 September 2025 (Monday)	B-37 Biology: Chapter-08	M-43 Math: Chapter-09	Daily Live Exam B-36 MCQ (10×1=10); 10 min. Daily Live Exam HM-38 MCQ (10×1=10); 10 min.	
02 September 2025 (Tuesday)	C-33 Chemistry: Chapter-07	HM-39 H.Math: Chapter-09	Daily Live Exam B-37 MCQ (10×1=10); 10 min. Daily Live Exam M-43 MCQ (10×1=10); 10 min.	
03 September 2025 (Wednesday)	C-34 Chemistry: Chapter-07	P-35 Physics: Chapter-06	Daily Live Exam C-33 MCQ (10×1=10); 10 min. Daily Live Exam HM-39 MCQ (10×1=10); 10 min.	
04 September 2025 (Thursday)	M-44 Math: Chapter-09	P-36 Physics: Chapter-06	Daily Live Exam C-34 MCQ (10×1=10); 10 min. Daily Live Exam P-35 MCQ (10×1=10); 10 min.	
05 September 2025 (Friday)	Chapter Wise Exam: Math- Chapter- 07 (Practical Geometry) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
	ICT-09 ICT: Chapter-04	ICT-10 ICT: Chapter-04	Daily Live Exam M-44 MCQ (10×1=10); 10 min. Daily Live Exam P-36 MCQ (10×1=10); 10 min.	
06 September 2025 (Saturday)	Chapter Wise Exam: Biology- Chapter- 07 (Exchange of Gases) MCQ (10×1=10); 10 min & CQ/ Written (30marks); 1 hour.			
07 September 2025 (Sunday)	B-38 Biology: Chapter-08	HM-40 H.Math: Chapter-09	Daily Live Exam ICT-09 MCQ (10×1=10); 10 min. Daily Live Exam ICT-10 MCQ (10×1=10); 10 min.	
08 September 2025 (Monday)	B-39 Biology: Chapter-09	M-17 Math: Chapter-04	Daily Live Exam B-38 MCQ (10×1=10); 10 min. Daily Live Exam HM-40 MCQ (10×1=10); 10 min.	
09 September 2025 (Tuesday)	Chapter Wise Exam: ICT- Chapter- 03 (Internet and Introduction of Web) MCQ (15×1=15); 15 min & CQ/ Written (10 marks); 15 min.			
	C-35 Chemistry: Chapter-07	HM-41 H.Math: Chapter-09	Daily Live Exam B-39 MCQ (10×1=10); 10 min. Daily Live Exam M-17 MCQ (10×1=10); 10 min.	
10 September 2025 (Wednesday)	C-36 Chemistry: Chapter-07	P-37 Physics: Chapter-06	Daily Live Exam C-35 MCQ (10×1=10); 10 min. Daily Live Exam HM-41 MCQ (10×1=10); 10 min.	
11 September 2025 (Thursday)	M-18 Math: Chapter-04	P-38 Physics: Chapter-06	Daily Live Exam C-36 MCQ (10×1=10); 10 min. Daily Live Exam P-37 MCQ (10×1=10); 10 min.	
12 September 2025 (Friday)	Chapter Wise Exam: Math- Chapter- 09 (Trigonometric Ratio) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
	M-19 Math: Chapter-04	P-39 Physics: Chapter-07	Daily Live Exam M-18 MCQ (10×1=10); 10 min. Daily Live Exam P-38 MCQ (10×1=10); 10 min.	
13 September 2025 (Saturday)	Chapter Wise Exam: Chemistry- Chapter- 06 (Concept of Mole and Chemical Counting) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
14 September 2025 (Sunday)	B-40 Biology: Chapter-09	HM-42 H.Math: Chapter-09	Daily Live Exam M-19 MCQ (10×1=10); 10 min. Daily Live Exam P-39 MCQ (10×1=10); 10 min.	
15 September 2025 (Monday)	B-41 Biology: Chapter-09	M-20 Math: Chapter-04	Daily Live Exam B-40 MCQ (10×1=10); 10 min. Daily Live Exam HM-42 MCQ (10×1=10); 10 min.	
16 September 2025 (Tuesday)	Chapter Wise Exam: Physics- Chapter- 06 (Effect of Heat on Matter) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
	C-37 Chemistry: Chapter-08	HM-21 H.Math: Chapter-04	Daily Live Exam B-41 MCQ (10×1=10); 10 min. Daily Live Exam M-20 MCQ (10×1=10); 10 min.	
17 September 2025 (Wednesday)	C-38 Chemistry: Chapter-08	P-40 Physics: Chapter-07	Daily Live Exam C-37 MCQ (10×1=10); 10 min. Daily Live Exam HM-21 MCQ (10×1=10); 10 min.	
18 September 2025 (Thursday)	M-33 Math: Chapter-08	P-41 Physics: Chapter-07	Daily Live Exam C-38 MCQ (10×1=10); 10 min. Daily Live Exam P-40 MCQ (10×1=10); 10 min.	
19 September 2025 (Friday)	Chapter Wise Exam: H.Math- Chapter- 09 (Exponential and Logarithmic Function) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
	M-34 Math: Chapter-08	P-42 Physics: Chapter-07	Daily Live Exam M-33 MCQ (10×1=10); 10 min. Daily Live Exam P-41 MCQ (10×1=10); 10 min.	
20 September 2025 (Saturday)	Chapter Wise Exam: Chemistry- Chapter- 07 (Chemical Reactions) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.			
21 September 2025 (Sunday)	B-42 Biology: Chapter-09	HM-22 H.Math: Chapter-04	Daily Live Exam M-34 MCQ (10×1=10); 10 min. Daily Live Exam P-42 MCQ (10×1=10); 10 min.	
22 September 2025 (Monday)	B-43 Biology: Chapter-10	M-35 Math: Chapter-08	Daily Live Exam B-42 MCQ (10×1=10); 10 min. Daily Live Exam HM-22 MCQ (10×1=10); 10 min.	
23 September 2025 (Tuesday)	Chapter Wise Exam: Biology- Chapter- 08 (Excretory System) MCQ (10×1=10); 10 min & CQ/ Written (30marks); 1 hour.			
	C-39 Chemistry: Chapter-08	HM-23 H.Math: Chapter-04	Daily Live Exam B-43 MCQ (10×1=10); 10 min. Daily Live Exam M-35 MCQ (10×1=10); 10 min.	
24 September 2025 (Wednesday)	P-43 Physics: Chapter-07	C-40 Chemistry: Chapter-08	Daily Live Exam C-39 MCQ (10×1=10); 10 min. Daily Live Exam HM-23 MCQ (10×1=10); 10 min.	
25 September 2025 (Thursday)	M-36 Math: Chapter-08	P-44 Physics: Chapter-07	Daily Live Exam P-43 MCQ (10×1=10); 10 min. Daily Live Exam C-40 MCQ (10×1=10); 10 min.	

26 September 2025 (Friday)	Chapter Wise Exam: Math- Chapter- 04 (Exponents and Logarithms) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
	HM-24 Math: Chapter-04	P-45 Physics: Chapter-08	Daily Live Exam M-36 MCQ (10×1=10); 10 min. Daily Live Exam P-44 MCQ (10×1=10); 10 min.
27 September 2025 (Saturday)	Chapter Wise Exam: H.Math- Chapter- 04 (Geometric Constructions) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
28 September 2025 (Sunday)	B-44 Biology: Chapter-10	HM-53 H.Math: Chapter-14	Daily Live Exam P-45 MCQ (10×1=10); 10 min. Daily Live Exam HM-24 MCQ (10×1=10); 10 min.
29 September 2025 (Monday)	B-45 Biology: Chapter-10	M-37 Math: Chapter-08	Daily Live Exam B-44 MCQ (10×1=10); 10 min. Daily Live Exam HM-53 MCQ (10×1=10); 10 min.
Online classes and exams will be closed from September 30 to October 04 on the occasion of Sharadiya Durga Puja.			
05 October 2025 (Sunday)	B-46 Biology: Chapter-10	HM-54 H.Math: Chapter-14	Daily Live Exam B-45 MCQ (10×1=10); 10 min. Daily Live Exam M-37 MCQ (10×1=10); 10 min.
06 October 2025 (Monday)	Chapter Wise Exam: ICT- Chapter- 04 (My Writings and Accounts) MCQ (15×1=15); 15 min & CQ/ Written (10 marks); 15 min.		
	B-47 Biology: Chapter-10	M-38 Math: Chapter-08	Daily Live Exam B-46 MCQ (10×1=10); 10 min. Daily Live Exam HM-54 MCQ (10×1=10); 10 min.
07 October 2025 (Tuesday)	Chapter Wise Exam: Physics- Chapter- 07 (Waves and Sound) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
	C-41 Chemistry: Chapter-08	HM-55 H.Math: Chapter-14	Daily Live Exam B-47 MCQ (10×1=10); 10 min. Daily Live Exam M-38 MCQ (10×1=10); 10 min.
08 October 2025 (Wednesday)	P-46 Physics: Chapter-08	C-42 Chemistry: Chapter-08	Daily Live Exam C-41 MCQ (10×1=10); 10 min. Daily Live Exam HM-55 MCQ (10×1=10); 10 min.
09 October 2025 (Thursday)	P-47 Physics: Chapter-08	M-21 Math: Chapter-05	Daily Live Exam C-42 MCQ (10×1=10); 10 min. Daily Live Exam P-46 MCQ (10×1=10); 10 min.
10 October 2025 (Friday)	Chapter Wise Exam: Biology- Chapter- 09 (Firmness and Locomotion) MCQ (10×1=10); 10 min & CQ/ Written (30marks); 1 hour.		
	P-48 Physics: Chapter-08	HM-56 H.Math: Chapter-14	Daily Live Exam M-21 MCQ (10×1=10); 10 min. Daily Live Exam P-47 MCQ (10×1=10); 10 min.
11 October 2025 (Saturday)	Chapter Wise Exam: Math- Chapter- 08 (Circle) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
12 October 2025 (Sunday)	B-48 Biology: Chapter-10	HM-43 H.Math: Chapter-11	Daily Live Exam P-48 MCQ (10×1=10); 10 min. Daily Live Exam HM-56 MCQ (10×1=10); 10 min.
13 October 2025 (Monday)	Chapter Wise Exam: Chemistry- Chapter- 08 (Chemistry & Energy) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
	P-49 Physics: Chapter-08	M-22 Math: Chapter-05	Daily Live Exam B-48 MCQ (10×1=10); 10 min. Daily Live Exam HM-43 MCQ (10×1=10); 10 min.
14 October 2025 (Tuesday)	Chapter Wise Exam: H.Math- Chapter- 14 (Probability) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
	C-43 Chemistry: Chapter-09	HM-44 H.Math: Chapter-11	Daily Live Exam P-49 MCQ (10×1=10); 10 min. Daily Live Exam M-22 MCQ (10×1=10); 10 min.
15 October 2025 (Wednesday)	P-50 Physics: Chapter-08	C-44 Chemistry: Chapter-09	Daily Live Exam C-43 MCQ (10×1=10); 10 min. Daily Live Exam HM-44 MCQ (10×1=10); 10 min.
16 October 2025 (Thursday)	P-51 Physics: Chapter-09	M-23 Math: Chapter-05	Daily Live Exam C-44 MCQ (10×1=10); 10 min. Daily Live Exam P-50 MCQ (10×1=10); 10 min.
17 October 2025 (Friday)	Chapter Wise Exam: Physics- Chapter- 08 (Reflection of Light) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
	P-52 Physics: Chapter-09	M-24 Math: Chapter-05	Daily Live Exam M-23 MCQ (10×1=10); 10 min. Daily Live Exam P-51 MCQ (10×1=10); 10 min.
18 October 2025 (Saturday)	Chapter Wise Exam: Biology- Chapter- 10 (Co-ordination) MCQ (10×1=10); 10 min & CQ/ Written (30marks); 1 hour.		
	P-53 Physics: Chapter-09	M-45 Math: Chapter-11	Daily Live Exam M-24 MCQ (10×1=10); 10 min. Daily Live Exam P-52 MCQ (10×1=10); 10 min.
19 October 2025 (Sunday)	P-54 Physics: Chapter-09	HM-45 H.Math: Chapter-11	Daily Live Exam M-45 MCQ (10×1=10); 10 min. Daily Live Exam P-53 MCQ (10×1=10); 10 min.
20 October 2025 (Monday)	P-55 Physics: Chapter-09	M-46 Math: Chapter-11	Daily Live Exam P-54 MCQ (10×1=10); 10 min. Daily Live Exam HM-45 MCQ (10×1=10); 10 min.
21 October 2025 (Tuesday)	Chapter Wise Exam: Math- Chapter- 05 (Equations in One Variable) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
	C-45 Chemistry: Chapter-09	HM-46 H.Math: Chapter-11	Daily Live Exam P-55 MCQ (10×1=10); 10 min. Daily Live Exam M-46 MCQ (10×1=10); 10 min.
22 October 2025 (Wednesday)	P-56 Physics: Chapter-09	C-46 Chemistry: Chapter-09	Daily Live Exam C-45 MCQ (10×1=10); 10 min. Daily Live Exam HM-46 MCQ (10×1=10); 10 min.
23 October 2025 (Thursday)	P-57 Physics: Chapter-10	M-47 Math: Chapter-11	Daily Live Exam C-46 MCQ (10×1=10); 10 min. Daily Live Exam P-56 MCQ (10×1=10); 10 min.
24 October 2025 (Friday)	M-48 Math: Chapter-11	HM-47 H.Math: Chapter-13	Daily Live Exam M-47 MCQ (10×1=10); 10 min. Daily Live Exam P-57 MCQ (10×1=10); 10 min.
	Chapter Wise Exam: Chemistry- Chapter- 09 (Acid- Base Balance) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
25 October 2025 (Saturday)	M-49 Math: Chapter-11	HM-48 H.Math: Chapter-13	Daily Live Exam M-48 MCQ (10×1=10); 10 min. Daily Live Exam HM-47 MCQ (10×1=10); 10 min.
	Chapter Wise Exam: H.Math- Chapter- 11 (Coordinate Geometry) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
26 October 2025 (Sunday)	M-50 Math: Chapter-11	HM-49 H.Math: Chapter-13	Daily Live Exam M-49 MCQ (10×1=10); 10 min. Daily Live Exam HM-48 MCQ (10×1=10); 10 min.
27 October 2025 (Monday)	P-58 Physics: Chapter-10	M-53 Math: Chapter-16	Daily Live Exam M-50 MCQ (10×1=10); 10 min. Daily Live Exam HM-49 MCQ (10×1=10); 10 min.
28 October 2025 (Tuesday)	Chapter Wise Exam: Physics- Chapter- 09 (Refraction of Light) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
	P-59 Physics: Chapter-10	HM-50 H.Math: Chapter-13	Daily Live Exam P-58 MCQ (10×1=10); 10 min. Daily Live Exam M-53 MCQ (10×1=10); 10 min.
29 October 2025 (Wednesday)	P-60 Physics: Chapter-10	M-54 Math: Chapter-16	Daily Live Exam P-59 MCQ (10×1=10); 10 min. Daily Live Exam HM-50 MCQ (10×1=10); 10 min.

30 October 2025 (Thursday)	P-61 Physics: Chapter-10	M-55 Math: Chapter-16	Daily Live Exam P-60 MCQ (10×1=10); 10 min. Daily Live Exam M-54 MCQ (10×1=10); 10 min.
31 October 2025 (Friday)	P-62 Physics: Chapter-10	M-56 Math: Chapter-16	Daily Live Exam P-61 MCQ (10×1=10); 10 min. Daily Live Exam M-55 MCQ (10×1=10); 10 min.
	Chapter Wise Exam: Math- Chapter- 11 (Algebraic Ratio and Proportion) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
01 November 2025 (Saturday)	HM-51 H.Math: Chapter-13	HM-52 H.Math: Chapter-13	Daily Live Exam P-62 MCQ (10×1=10); 10 min. Daily Live Exam M-56 MCQ (10×1=10); 10 min.
	Chapter Wise Exam: Physics- Chapter- 10 (Static Electricity) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
02 November 2025 (Sunday)	---	---	Daily Live Exam HM-51 MCQ (10×1=10); 10 min. Daily Live Exam HM-52 MCQ (10×1=10); 10 min.
	Chapter Wise Exam: Math- Chapter- 16 (Mensuration) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		
03 November 2025 (Monday)	Chapter Wise Exam: H.Math- Chapter- 13 (Solid geometry) MCQ (10×1=10); 10 min & CQ/ Written (30 marks); 1 hour.		

Subject Final Exam Routine				
Date & Day	Subject	Syllabus	Exam Name, Type & Time	Exam Time
06 November 2025 (Thursday)	Chemistry	Chapter: 1, 2, 3, 4, 5, 6, 7, 8, 9	Subject Final Exam Chemistry. CQ/Written 50marks; 2:30 Hrs & MCQ (25×1=25); 25 min.	Online From 8:00 AM to 11:55 PM Offline From 9:00 AM to 5:00 PM
07 November 2025 (Friday)	Biology	Chapter: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10	Subject Final Exam Biology. CQ/Written 50marks; 2:30 Hrs & MCQ (25×1=25); 25 min.	
08 November 2025 (Saturday)	Physics	Chapter: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10	Subject Final Exam Physics. CQ/Written 50marks; 2:30 Hrs & MCQ (25×1=25); 25 min.	
09 November 2025 (Sunday)	Mathematics	Chapter: 1, 2.1, 2.2, 3.1, 3.2, 3.3, 3.4, 4.1, 4.2, 4.3, 5.1, 5.2, 6, 7, 8.1, 8.2, 8.3, 9.1, 9.2, 11.1, 11.2, 13.1, 16.1, 16.2, 17	Subject Final Exam Mathematics. CQ/Written 70marks; 2:30 Hrs & MCQ (30×1=30); 30 min.	
10 November 2025 (Monday)	ICT	Chapter: 1, 2, 3, 4	Subject Final Exam ICT. MCQ (25×1=25); 25 min.	
11 November 2025(Tuesday)	Higher Mathematics	Chapter: 1.1, 1.2, 2, 3.1, 3.2, 4, 5.1, 5.2, 5.3, 5.4, 5.5, 8.1, 8.2, 9.1, 9.2, 11.1, 11.2, 13, 14	Subject Final Exam Higher Mathematics. CQ/Written 50marks; 2:30 Hrs & MCQ (25×1=25); 25 min.	
End				

Online Class & Exam System:

- Scan the QR code below to attend classes and exams or visit online.udvash-unmesh.com and **login** using the registration number provided.
- You can appear once between **9 am to 11:55pm** as per date mentioned in **daily exam** routine.
However, for more practice, students can participate in the **Practice Exam** of the same syllabus multiple times.
- Use the **Past Class** option to view recorded videos and PDFs of daily classes.
- Q&A** option can be used 24/7 to solve any subject related problems after the class.
- All those admitted in the 'Combo Batch' can participate in the Chapter wise exams online as well as in any nearby branch.
- Join our Facebook group (<https://www.facebook.com/groups/class6789.udvashunmesh>) to get all information in time.

Class Nine Academic Program- 2025 Syllabus [Last Part]

Physics		
Chapter	Lecture	Lecture based discussion
Chapter-06 Effect of Heat on Matter	P-35	Thermal Expansion of Matter, Expansion of Solids, Expansion of Liquid, Expansion of Gases,
	P-36	Effect of Temperature on Change of State, Dependence of Vaporization(Flow of air the area of the exposed surface of the liquid, nature of liquid, pressure of air).
	P-37	Specific Heat, Fundamental principle of Calorimetry, Effect of pressure on Melting Point and boiling Point
	P-38	Specific Heat, Fundamental principle of Calorimetry, Mathematical Problems.
Chapter-07 Waves and Sound	P-39	Simple Harmonic Motion
	P-40	Waves, Characteristics of Waves, Types of Waves,
	P-41	Wave related quantities, Sound Wave, Characteristics of sound wave, Echo,
	P-42	Variation of Velocity of Sound, Mathematical problem
	P-43	Uses of Sound (Three dimensional Seismic Surveys, Ultrasound cleaner).

	P-44	Musical Sound, Sound Pollution.
Chapter-08 Reflection of Light	P-45	Nature of Light, Reflection, Absorption.
	P-46	Laws of Reflection, Reflection from smooth and rough planes.
	P-47	Mirror, Image, Spherical Mirror.
	P-48	Convex Mirror, Image in a Spherical Convex Mirror.
	P-49	Concave Mirror, Image on concave mirror (At a distance less than focal length, At a distance greater than focal Length)
	P-50	Magnification, Use of Mirrors, Plane Mirror, Convex Mirror, Concave Mirror, Safe Driving Invisible Curves of Hilly Roads
Chapter-09 Refraction of Light	P-51	Refraction of Light, Laws of Refraction.
	P-52	Relative Refractive Index, Mathematical Problems.
	P-53	Total Internal Reflection, Rainbow, Mirage, Mathematical Problems.
	P-54	Uses of Reflection, Optical Fiber, Prism, Periscope and Binocular, Lens.
	P-55	Types of Lenses, Concave Lens.
	P-56	Convex lens, Power of lens.
Chapter-10 Static Electricity	P-57	Charge, Static Electricity by Friction
	P-58	Electrical Induction, Electroscope
	P-59	Electric Force
	P-60	Electric Field
	P-61	Electric Potential, Potential Difference, Capacitor
	P-62	Uses of Static Electricity, Photocopy, Van de Graaff Machine, Fuel Truck, Electronics, Lightning and Lightning Arrestor, Static Electric Color Spray

Chemistry		
Chapter	Lecture	Lecture based discussion
Chapter-07 Chemical Reactions	C-33	Non Redox Reaction (Precipitation and Neutralization Reaction), Special Types of Chemical Reactions (Hydrolysis and Hydration Reaction),
	C-34	Special Types of Chemical Reactions, Isomerization and Polymerization,
	C-35	Example of a Few Real-Life Chemical Reactions, Ways of Prevention of Some Harmful Reactions, Rate of Reaction.
	C-36	Le Chatelier's Principle, Explanation of Le Chatelier's Principle and Effect,
Chapter-08 Chemistry & Energy	C-37	Source of chemical energy, Classification of chemical reactions according to change of heat, (Exothermic and Endothermic), Calculation of heat change in chemical reactions using the bond energy.
	C-38	Mathematical problem related to heat change in chemical reactions, Transformation of chemical energy into different types of energy, Chemical energy and use of various energies obtained from chemical energy.
	C-39	Appropriate use of chemical energy, Importance of purity of fuel, Negative effects of the use of chemical energy, uses of ethanol as fuel.
	C-40	Electrochemical cells, conductors, electronic conductors, Electrolyte & Electrode, Electrolytic cell, Electrolysis, Uses of electrolysis.
	C-41	Mechanism of electrolysis.
	C-42	Production of electricity by chemical reactions, nuclear reaction & electricity generation.
Chapter-09 Acid- Base Balance	C-43	Acid, Demonstrating properties of dilute acids through experiments, The role of water in chemical properties of acids, Alkali & Base, Properties of dilute bases.
	C-44	Dilute base in reaction with metallic salts, The role of water in chemical properties of Alkali, Corrosive properties of concentrated acids and alkali.
	C-45	Revision, the conception of pH, Measuring pH, Importance of pH, Neutralization Reaction (Importance of Neutralization Reaction in daily life, Salt), Acid rain.
	C-46	Hardness of water, Water pollution & pollution control, Testing the purity of water and water purification, BOD, COD, Concept of Molarity.

Math		
Chapter	Lecture	Lecture based discussion
Chapter-09 Trigonometric Ratio	M-43	Proof of Trigonometric Ratios of Angles $0^\circ, 30^\circ, 60^\circ, 45^\circ, 90^\circ$, Example (13) Exercise 9.2 (1-17, 22, 27).
	M-44	Example (14), Exercise-9.2 (18-21, 23-26, 28-32).
Chapter-04 Exponents and Logarithms	M-17	Exponents, Laws of of Exponents, Proofs and Examples, Exercise-4.1 (1-8).
	M-18	Exercise 4.1 (9-22), Basic concepts of Logarithms.
	M-19	Proof of Laws of Logarithms, Exercise – 4.2
	M-20	Method of Logarithms (Normal Logarithm, Common Logarithm) Concepts of characteristics and mantissa of common logs, Exercise 4.3, Example.

Chapter-08 Circle	M-33	Circle, interior and exterior of a circle, chord and diameter, Theorems (17, 18, 19), Exercise-8.1 (1-2).
	M-34	Exercise- 8.1 (3-8).
	M-35	Arc of a Circle, Inscribed angle, Central angle, Theorem- 20, 21, 22
	M-36	Exercise – 8.2
	M-37	Theorem related to quadrilateral inscribed in a circle (23, 24), Exercise-8.3 (1, 2).
	M-38	Exercise – 8.3 (3-7).
Chapter-05 Equations in One Variable	M-21	Variable, Equation and Identity, Solving Linear Equations, Exercise- 5.1 (1-14) Exercise- 5.2 (1-22).
	M-22	Exercise-5.1 (15-22, 25).
	M-23	Quadratic Equations in One Variable, Usage of Quadratic Equations, Exercise-5.2 (23-31).
	M-24	Exercise – 5.1 (23, 24), Exercise – 5.2 (32, 33, 34).
Chapter-11 Algebraic Ratio and Proportion	M-45	Ratio and Proportion, Continued Proportion, Transformation of Proportions, Example (2), Exercise-11.1 (6).
	M-46	Exercise-11.1 (1-5), Example (11), Exercise-11.1 (9, 10).
	M-47	Examples (3-8), (7, 8) of Exercise 11.1
	M-48	Example (9, 10), (11-20) of Exercise 11.1
	M-49	Continued Proportions, Ratio, Exercise-11.2 (1-14).
	M-50	Exercise-11.2 (15-25).
Chapter-16 Mensuration	M-53	Proof of Area of different types of triangular region, Exercise 16.1 (1, 2, 3, 4, 6).
	M-54	Exercise 16.1 (5, 7-10), Proof of Area of Regular Polygons.
	M-55	Proving Areas of Different Types of Quadrilaterals, Exercise 16.2 (1-8).
	M-56	Exercise – 16.2(9-16).

H. Math		
Chapter	Lecture	Lecture based discussion
Chapter-09 Exponential and Logarithmic Function	HM-38	Example (16, 17), Exercise-9.1 (7, 9).
	HM-39	Examples (18-29), Activity on page 223.
	HM-40	Exercise-9.2 (1, 2, 3, 4, 5 of 7, 6).
	HM-41	Exercise-9.2 (6,7,8, of 7), Examples (31, 33), Exercise-9.2 (10, 11, 12).
	HM-42	Logarithmic and Absolute Value Functions, Graph of Functions, Exercise-9.2 (8, 9, 13, 14, 15).
Chapter-04 Geometric Constructions	HM-21	Construction-(1, 2, 3, 4, 5, 6), Example-1, 2, 3
	HM-22	Exercise-4 (12, 13, 14), Exercise-4 (1-6).
	HM-23	Exercise-4 (7-11).
	HM-24	Exercise-4 (15-18).
Chapter-14 Probability	HM-53	Some Concepts related to Probability, Logic Based Probability, Data Based Probability, Examples, Activity, Exercise-14 (1-6).
	HM-54	Exercise-14(7-12), Sample Space and Probability Determination of Probability-by-Probability Tree, Exercise-14 (13, 14).
	HM-55	Mutually Exclusive Events, Mutually Non-Exclusive Events, Concept of Exclusive Events (When to Multiply / Add), Exercise-14 (15-18).
	HM-56	Chapter review and creative Problems related to Probabilities.
Chapter-11 Coordinate Geometry	HM-43	Rectangular Cartesian Coordinates, Distance Between Two Points, Example, Exercise – 11.1
	HM-44	Area of a Triangle, Formula for Finding the Area of a Triangle, Example (7-11), Exercise- 11.2 (1-7).
	HM-45	Vertices, Finding area using coordinates, Exercise – 11.2 (8, 9).
	HM-46	Exercises – 11.2 (10), Examples (12, 13).
Chapter-13 Solid geometry	HM-47	Some basic definitions, solids, volume and surface area of rectangular solids, cube, Exercise-13 (7-9), HW: Exercise-13 (31)
	HM-48	Exercise-13 (10, 21-23), Right circular cone, Exercise-13(11-13, 24), HW: Exercise-13 (32).
	HM-49	Sphere, Exercise-13 (14-20).
	HM-50	Prism, pyramid, example.
	HM-51	Exercise-13 (25-28).
	HM-52	Rectangular Solids, Exercise-13 (1-6 and 29, 30).

Biology		
Chapter	Lecture	Lecture based discussion
Chapter-07 Exchange of Gases	B-36	Diseases of respiratory system (Bronchitis, Pneumonia, Tuberculosis, Lung cancer)
Chapter-08 Excretory System	B-37	Excretory system, Excretory products, Kidney, Nephron
	B-38	Function of kidney, Role of kidneys in osmoregulation, Kidney stone, Kidney failure, Dialysis and kidney transplant, Precaution.
Chapter-09 Firmness and Locomotion	B-39	Introductions of human skeleton, Role of skeleton in firmness and locomotion
	B-40	Bone, Cartilage and Joint, Synovial joint, Types of joint

Chapter-10 Co-ordination	B-41	Muscles, Roles of bones and muscles in human locomotion, Tendon and ligament
	B-42	Diseases of bones (Osteoporosis, Rheumatoid arthritis) (Review of the chapter)
	B-43	Coordination in plants, Phytohormone (Auxin, Gibberellin, Cytokinin, Ethylene), Use of hormones (Growth, Movement, Phototropism)
	B-44	Coordination in animal (Influence of hormones, Influence of nerves), Nervous system, Central nervous system (Brain, spinal cord)
	B-45	Nervous system, Reflex action
	B-46	Peripheral nervous system, Autonomic nervous system, Transmission of impulse
	B-47	Hormone, Introduction of main endocrine gland, Function and secreted hormones, Abnormalities due to hormone (Thyroid problem)
	B-48	Abnormalities due to hormone (Diabetes) Physical disabilities due to nerve disorder (Paralysis, Epilepsy, Parkinson disease), Influence of tobacco and drugs on co-ordination

Information and Communication Technology

<u>Chapter</u>	<u>Lecture</u>	<u>Lecture based discussion</u>
Chapter-04 My Writings and Accounts	ICT-09	My Writing on Word Processor
	ICT-10	Spreadsheet and My Accounts Analysis of Spreadsheet

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