# HSC 1st Year Academic Program

# Prime Batch

Online Batch Time	Class & Exam routin	Online Exam Time		
English Version – 3:00 pm	Part-03	From 9:00 am to 11:00 pm		
Date and time	Live Class (Online Smart Board)	Live Exam (Online)		
27 October 2024 (Sunday)	Live Class (HM-59+60) H.Math: Chapter- 09	Daily Live Exam (HM-51+52) <b>MCQ</b> (10×1=10); 10 min		
28 October 2024 (Monday)	Live Class (P-37+38) Physics: Chapter- 06	Daily Live Exam (HM-59+60) <b>MCQ</b> (10×1=10); 10 min		
29 October 2024 (Tuesday)	Live Class (C-01+02) Chemistry: Chapter- 01	Daily Live Exam (P-37+38) <b>MCQ</b> (10×1=10); 10 min		
30 October 2024 (Wednesday)	Live Class (B-27+28) Botany: Chapter- 05	Daily Live Exam (C-01+02) <b>MCQ</b> (10×1=10); 10 min		
31 October 2024 (Thursday)	Live Class (HM-25+26) H.Math: Chapter- 04	Daily Live Exam (B-27+28) <b>MCQ</b> (10×1=10); 10 min		
01 November 2024 (Friday)	Chapter-wise Exam [Zoology Chapter-03] (CQ 2×10=20); T	ime: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
02 November 2024 (Saturday)	Chapter-wise Exam [Physics 1st Paper Chapter-05] (CQ 2×	<10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
03 November 2024 (Sunday)	Live Class (HM-61+62) H.Math: Chapter- 09	Daily Live Exam (HM-25+26) <b>MCQ</b> (10×1=10); 10 min		
04 November 2024 (Monday)	Live Class (P-39+40) Physics: Chapter- 06	Daily Live Exam (HM-61+62) <b>MCQ</b> (10×1=10); 10 min		
05 November 2024 (Tuesday)	Live Class (C-03+04) Chemistry: Chapter- 01	Daily Live Exam (P-39+40) <b>MCQ</b> (10×1=10); 10 min		
06November 2024 (Wednesday)	Live Class (Z-19+20) Zoology: Chapter- 04	Daily Live Exam (C-03+04) <b>MCQ</b> (10×1=10); 10 min		
07 November 2024 (Thursday)	Live Class (HM-27+28) H.Math: Chapter- 04	Daily Live Exam (Z-19+20) <b>MCQ</b> (10×1=10); 10 min		
08 November 2024 (Friday)	Chapter-wise Exam [H.Math 1st Paper Chapter-07] (CQ 2×	10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
09 November 2024 (Saturday)	Chapter-wise Exam [Botany Chapter-05] (CQ 2×10=20); Ti	me: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
10 November 2024 (Sunday)	Live Class (HM- <mark>63+64)</mark> H.Math: Chapter- 09	Daily Live Exam (HM-27+28) MCQ (10×1=10); 10 min		
11 November 2024 (Monday)	Live Class (P-41+42) Physics: Chapter-06	Daily Live Exam (HM-63+64) <b>MCQ</b> (10×1=10); 10 min		
12 November 2024 (Tuesday)	Live Class (C-37+38) Chemistry: Chapter- 04	Daily Live Exam (P-41+42) <b>MCQ</b> (10×1=10); 10 min		
13 November 2024 (Wednesday)	Live Class (Z-21+22) Zoology: Chapter-04	Daily Live Exam (C-37+38) <b>MCQ</b> (10×1=10); 10 min		
14 November 2024 (Thursday)	Live Class (HM-29+30) H.Math: Chapter- 04	Daily Live Exam (Z-21+22) <b>MCQ</b> (10×1=10); 10 min		
15 November 2024 (Friday)	Chapter-wise Exam [Chemistry 1st Paper Chapter-01] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min			
16 November 2024 (Saturday)	Chapter-wise Exam [Physics 1st Paper Chapter-06] (CQ 2>	<10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
17 November 2024 (Sunday)	Live Class (HM-65+66) H.Math: Chapter- 09	Daily Live Exam (HM-29+30) <b>MCQ</b> (10×1=10); 10 min		
18 November 2024 (Monday)	Live Class (P-59+60) Physics: Chapter-10	Daily Live Exam (HM-65+66) <b>MCQ</b> (10×1=10); 10 min		
19 November 2024 (Tuesday)	Live Class (C-39+40) Chemistry: Chapter- 04	Daily Live Exam (P-59+60) <b>MCQ</b> (10×1=10); 10 min		
20 November 2024 (Wednesday)	Live Class (Z-23+24) Zoology: Chapter- 04	Daily Live Exam (C-39+40) <b>MCQ</b> (10×1=10); 10 min		
21 November 2024 (Thursday)	Live Class (HM-31+32) H.Math: Chapter- 05	Daily Live Exam (Z-23+24) <b>MCQ</b> (10×1=10); 10 min		
22 November 2024 (Friday)	Chapter-wise Exam [H.Math 1st Paper Chapter-04] (CQ 2×	10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
23 November 2024 (Saturday)	Chapter-wise Exam [H.Math 1st Paper Chapter-09] (Part-0	01); Lecture HM-60 to 66; <mark>(CQ 2×10=20)</mark> ; Time: 50min &		
25 November 2024 (Saturday)	(Pre-Admission MCQ 10×1=10); Time: 10min.			
24 November 2024 (Sunday)	Live Class (HM-67+68) H.Math: Chapter- 09	Daily Live Exam (HM-31+32) <b>MCQ</b> (10×1=10); 10 min		
25 November 2024 (Monday)	Live Class (P-61+62) Physics: Chapter- 10	Daily Live Exam (HM-67+68) <b>MCQ</b> (10×1=10); 10 min		
26 November 2024 (Tuesday)	Live Class (C-41+42) Chemistry: Chapter- 04	Daily Live Exam (P-61+62) <b>MCQ</b> (10×1=10); 10 min		
27 November 2024 (Wednesday)	Live Class (Z-25+26) Zoology: Chapter- 04, 05	Daily Live Exam (C-41+42) <b>MCQ</b> (10×1=10); 10 min		
28 November 2024 (Thursday)	Live Class (HM-33+34) H.Math: Chapter- 05	Daily Live Exam (Z-25+26) <b>MCQ</b> (10×1=10); 10 min		
30 November 2024 (Saturday)	Chapter-wise Exam [Zoology Chapter-04] (CQ 2×10=20); T	ime: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
01 December 2024 (Sunday)	Live Class (HM-69+70) H.Math: Chapter- 09	Daily Live Exam (HM-33+34) <b>MCQ</b> (10×1=10); 10 min		
02 December 2024 (Monday)	Live Class (P-63+64) Physics: Chapter-10	Daily Live Exam (HM-69+70) <b>MCQ</b> (10×1=10); 10 min		

03 December 2024 (Tuesday)	Live Class (C-43+44) Chemistry: Chapter- 04	Daily Live Exam (P-63+64) <b>MCQ</b> (10×1=10); 10 min		
04 December 2024 (Wednesday)	Live Class (Z-27+28) Zoology: Chapter- 05	Daily Live Exam (C-43+44) <b>MCQ</b> (10×1=10); 10 min		
05 December 2024 (Thursday)	Live Class (HM-35+36) H.Math: Chapter- 05 Daily Live Exam (Z-27+28) MCQ (10×1=10); 10 min			
06 December 2024 (Friday)	Chapter-wise Exam [Physics 1st Paper Chapter-10] (CQ 2>	x10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
07 December 2024 (Saturday)	Chapter-wise Exam [Chemistry 1st Paper Chapter-04] (Pa (Pre-Admission MCQ 10×1=10); Time: 10min.	art-01); Lecture C-37 to 44; ( <mark>CQ 2×10=20</mark> ); Time: 50min &		
08 December 2024 (Sunday)	Live Class (HM-71+72) H.Math: Chapter- 09	Daily Live Exam (HM-35+36) <b>MCQ</b> (10×1=10); 10 min		
09 December 2024 (Monday)	Live Class (P-43+44) Physics: Chapter- 07	Daily Live Exam (HM-71+72) <b>MCQ</b> (10×1=10); 10 min		
10 December 2024 (Tuesday)	Live Class (C-45+46) Chemistry: Chapter- 04	Daily Live Exam (P-43+44) <b>MCQ</b> (10×1=10); 10 min		
11 December 2024 (Wednesday)	Live Class (B-19+20) Botany: Chapter- 04	Daily Live Exam (C-45+46) <b>MCQ</b> (10×1=10); 10 min		
12 December 2024 (Thursday)	Live Class (HM-07+08) H.Math: Chapter- 02	Daily Live Exam (B-19+20) <b>MCQ</b> (10×1=10); 10 min		
13 December 2024 (Friday)	Chapter-wise Exam [Zoology Chapter-05] (CQ 2×10=20); 1	rime: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
14 December 2024 (Saturday)	Chapter-wise Exam [H.Math 1st Paper Chapter-05] (CQ 2×	10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
15 December 2024 (Sunday)	Live Class (HM-73+74) H.Math: Chapter-10	Daily Live Exam (HM-07+08) <b>MCQ</b> (10×1=10); 10 min		
Oni	ine classes and exams will be closed on December 16	on the occasion of Great Victory Day.		
17 December 2024 (Tuesday)	Live Class (C-47+48) Chemistry: Chapter- 04	Daily Live Exam (HM-73+74) <b>MCQ</b> (10×1=10); 10 min		
18 December 2024 (Wednesday)	Live Class (B-21+22) Botany: Chapter- 04	Daily Live Exam (C-47+48) <b>MCQ</b> (10×1=10); 10 min		
19 December 2024 (Thursday)	Live Class (HM-09+10) H.Math: Chapter- 02	Daily Live Exam (B-21+22) <b>MCQ</b> (10×1=10); 10 min		
	Chapter-wise Exam [H.Math 1st Paper Chapter-09] (Part-	<mark>02);</mark> Lecture HM-67 to 72; ( <mark>CQ 2×10=20</mark> ); Time: 50min &		
20 December 2024 (Friday)	(Pre-Admission MCQ 10×1=10); Time: 10min.			
22 December 2024 (Sunday)	Live Class (HM-75+76) H.Math: Chapter-10	Daily Live Exam (HM-09+10) <b>MCQ</b> (10×1=10); 10 min		
23 December 2024 (Monday)	Live Class (P-45+46) Physics: Chapter- 07	Daily Live Exam (HM-75+76) <b>MCQ</b> (10×1=10); 10 min		
24 December 2024 (Tuesday)	Live Class (C-49+50) Chemistry: Chapter- 04	Daily Live Exam (P-45+46) <b>MCQ</b> (10×1=10); 10 min		
25 December 2024 (Wednesday)	Live Class (B-23+24) Botany: Chapter- 04 Daily Live Exam (C-4	Daily Live Exam (C-49+50) <b>MCQ</b> (10×1=10); 10 min		
26 December 2024 (Thursday)	Live Class (HM-77+78) H.Math: Chapter- 10	Daily Live Exam (B-23+24) <b>MCQ</b> (10×1=10); 10 min		
27 December 2024 (Friday)	Chapter-wise Exam [H.Math 1st Paper Chapter-02] (CQ 2×	10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
28 December 2024 (Saturday)	Chapter-wise Exam [Botany Chapter-04] (CQ 2×10=20); Ti	ime: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
29 December 2024 (Sunday)	Live Class (HM-79+80) H.Math: Chapter- 10	Daily Live Exam (HM-77+78) <b>MCQ</b> (10×1=10); 10 min		
30 December 2024 (Monday)	Live Class (P-47+48) Physics: Chapter- 07	Daily Live Exam (HM-79+80) <b>MCQ</b> (10×1=10); 10 min		
31 December 2024 (Tuesday)	Live Class (C-51+52) Chemistry: Chapter- 04	Daily Live Exam (P-47+48) <b>MCQ</b> (10×1=10); 10 min		
01 January 2025 (Wednesday)	Live Class (Z-29+30) Zoology: Chapter- 06	Daily Live Exam (C-51+52) <b>MCQ</b> (10×1=10); 10 min		
02 January 2025 (Thursday)	Live Class (HM-81+82) H.Math: Chapter-10	Daily Live Exam (Z-29+30) <b>MCQ</b> (10×1=10); 10 min		
03 January 2025 (Friday)		21): Leshurs IIM 72 to 79: (CO 2:10-20): Time: 50min 5:		
	Chapter-wise Exam [H.Math 1st Paper Chapter-10] (Part-0 (Pre-Admission MCQ 10×1=10); Time: 10min.	51); Lecture HM-73 to 78; (CQ 2×10=20); Time: Somin &		
04 January 2025 (Saturday)	(Pre-Admission MCQ 10×1=10); Time: 10min.	x10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
<b>04 January 2025 (Saturday)</b> 05 January 2025 (Sunday)	(Pre-Admission MCQ 10×1=10); Time: 10min.			
	(Pre-Admission MCQ 10×1=10); Time: 10min. Chapter-wise Exam [Physics 1st Paper Chapter-07] (CQ 22	<10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
05 January 2025 (Sunday)	(Pre-Admission MCQ 10×1=10); Time: 10min. Chapter-wise Exam [Physics 1st Paper Chapter-07] (CQ 2× Live Class (HM-83+84) H.Math: Chapter- 10	x10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min Daily Live Exam (HM-81+82) MCQ (10×1=10); 10 min		
05 January 2025 (Sunday) 06 January 2025 (Monday)	(Pre-Admission MCQ 10×1=10); Time: 10min.         Chapter-wise Exam [Physics 1st Paper Chapter-07] (CQ 2x         Live Class (HM-83+84) H.Math: Chapter- 10         Live Class (P-49+50) Physics: Chapter- 08	<b>*10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min</b> Daily Live Exam (HM-81+82) <b>MCQ</b> (10×1=10); 10 min Daily Live Exam (HM-83+84) <b>MCQ</b> (10×1=10); 10 min		
05 January 2025 (Sunday) 06 January 2025 (Monday) 07 January 2025 (Tuesday)	(Pre-Admission MCQ 10×1=10); Time: 10min.         Chapter-wise Exam [Physics 1st Paper Chapter-07] (CQ 2x         Live Class (HM-83+84) H.Math: Chapter- 10         Live Class (P-49+50) Physics: Chapter- 08         Live Class (C-53+54) Chemistry: Chapter- 05	<b>x10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min</b> Daily Live Exam (HM-81+82) MCQ (10×1=10); 10 min Daily Live Exam (HM-83+84) MCQ (10×1=10); 10 min Daily Live Exam (P-49+50) MCQ (10×1=10); 10 min		
05 January 2025 (Sunday) 06 January 2025 (Monday) 07 January 2025 (Tuesday) 08 January 2025 (Wednesday)	(Pre-Admission MCQ 10×1=10); Time: 10min.         Chapter-wise Exam [Physics 1st Paper Chapter-07] (CQ 2x         Live Class (HM-83+84) H.Math: Chapter- 10         Live Class (P-49+50) Physics: Chapter- 08         Live Class (C-53+54) Chemistry: Chapter- 05         Live Class (B-29+30) Botany: Chapter- 06	<b>x10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min</b> Daily Live Exam (HM-81+82) MCQ (10×1=10); 10 min Daily Live Exam (HM-83+84) MCQ (10×1=10); 10 min Daily Live Exam (P-49+50) MCQ (10×1=10); 10 min Daily Live Exam (C-53+54) MCQ (10×1=10); 10 min Daily Live Exam (B-29+30) MCQ (10×1=10); 10 min		
05 January 2025 (Sunday) 06 January 2025 (Monday) 07 January 2025 (Tuesday) 08 January 2025 (Wednesday) 09 January 2025 (Thursday)	(Pre-Admission MCQ 10×1=10); Time: 10min.         Chapter-wise Exam [Physics 1st Paper Chapter-07] (CQ 22         Live Class (HM-83+84) H.Math: Chapter- 10         Live Class (P-49+50) Physics: Chapter- 08         Live Class (P-49+50) Physics: Chapter- 08         Live Class (C-53+54) Chemistry: Chapter- 05         Live Class (B-29+30) Botany: Chapter- 06         Live Class (B-31+32) Botany: Chapter- 07         Chapter-wise Exam [Chemistry 1st Paper Chapter-04] (Page (Pre-Admission MCQ 10×1=10); Time: 10min.	<b>x10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min</b> Daily Live Exam (HM-81+82) MCQ (10×1=10); 10 min Daily Live Exam (HM-83+84) MCQ (10×1=10); 10 min Daily Live Exam (P-49+50) MCQ (10×1=10); 10 min Daily Live Exam (C-53+54) MCQ (10×1=10); 10 min Daily Live Exam (B-29+30) MCQ (10×1=10); 10 min		
05 January 2025 (Sunday) 06 January 2025 (Monday) 07 January 2025 (Tuesday) 08 January 2025 (Wednesday) 09 January 2025 (Thursday) 10 January 2025 (Friday)	(Pre-Admission MCQ 10×1=10); Time: 10min.         Chapter-wise Exam [Physics 1st Paper Chapter-07] (CQ 22         Live Class (HM-83+84) H.Math: Chapter- 10         Live Class (P-49+50) Physics: Chapter- 08         Live Class (P-49+50) Physics: Chapter- 08         Live Class (C-53+54) Chemistry: Chapter- 05         Live Class (B-29+30) Botany: Chapter- 06         Live Class (B-31+32) Botany: Chapter- 07         Chapter-wise Exam [Chemistry 1st Paper Chapter-04] (Page (Pre-Admission MCQ 10×1=10); Time: 10min.	<b>x10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min</b> Daily Live Exam (HM-81+82) MCQ (10×1=10); 10 min Daily Live Exam (HM-83+84) MCQ (10×1=10); 10 min Daily Live Exam (P-49+50) MCQ (10×1=10); 10 min Daily Live Exam (C-53+54) MCQ (10×1=10); 10 min Daily Live Exam (B-29+30) MCQ (10×1=10); 10 min		
05 January 2025 (Sunday)         06 January 2025 (Monday)         07 January 2025 (Tuesday)         08 January 2025 (Wednesday)         09 January 2025 (Thursday)         10 January 2025 (Friday)         11 January 2025 (Saturday)	(Pre-Admission MCQ 10×1=10); Time: 10min.Chapter-wise Exam [Physics 1st Paper Chapter-07] (CQ 22Live Class (HM-83+84) H.Math: Chapter- 10Live Class (P-49+50) Physics: Chapter- 08Live Class (P-49+50) Physics: Chapter- 08Live Class (C-53+54) Chemistry: Chapter- 05Live Class (B-29+30) Botany: Chapter- 06Live Class (B-31+32) Botany: Chapter- 07Chapter-wise Exam [Chemistry 1st Paper Chapter-04] (Pere-Admission MCQ 10×1=10); Time: 10min.Chapter-wise Exam [Zoology Chapter-06] (CQ 2×10=20); The second s	x10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min Daily Live Exam (HM-81+82) MCQ (10×1=10); 10 min Daily Live Exam (HM-83+84) MCQ (10×1=10); 10 min Daily Live Exam (P-49+50) MCQ (10×1=10); 10 min Daily Live Exam (C-53+54) MCQ (10×1=10); 10 min Daily Live Exam (B-29+30) MCQ (10×1=10); 10 min		

15 January 2025 (Wednesday)	Live Class (B-33+34) Botany: Chapter- 07	Daily Live Exam (C-55+56) <b>MCQ</b> (10×1=10); 10 min	
16 January 2025 (Thursday)	Live Class (P-55+56) Physics: Chapter- 09	Daily Live Exam (B-33+34) <b>MCQ</b> (10×1=10); 10 min	
	Chapter-wise Exam [H.Math 1st Paper Chapter-10] (Part-02); Lecture HM-79 to 84; (CQ 2×10=20); Time: 50min &		
17 January 2025 (Friday)	(Pre-Admission MCQ 10×1=10); Time: 10min.		
18 January 2025 (Saturday)	Chapter-wise Exam [Botany Chapter-06] (CQ 2×10=20); 1	Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
19 January 2025 (Sunday)	Live Class (P-57+58) Physics: Chapter- 09	Daily Live Exam (P-55+56) <b>MCQ</b> (10×1=10); 10 min	
20 /		Daily Live Exam (P-57+58) <b>MCQ</b> (10×1=10); 10 min	
20 January 2025 (Monday)	Chapter-wise Exam [Physics 1st Paper Chapter-08] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
22 January 2025 (Wednesday)	Chapter-wise Exam [Chemistry 1st Paper Chapter-05] (C	Q 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min	
24 January 2025 (Friday)	Chapter-wise Exam [Botany Chapter-07] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
25 January 2025 (Saturday)	Chapter-wise Exam [Physics 1st Paper Chapter-09] (CQ 2	Chapter-wise Exam [Physics 1st Paper Chapter-09] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min	
	***END***		

#### Online Classes & Exam Procedure:

- \* Go to this website udvash.com and click on 'Join Now' menu to give Live Class & Exam. Login to class 11th academic program Prime Batch using your admitted registration number to participate in classes and exams.
- \* The Daily Live Exam will run from 09:00 am to 11:00 pm as per the date mentioned in the routine. A student can participate in the Live Exam only once during this period. However, for more practice, students can participate in the Practice Exam of the same syllabus multiple times.

## HSC 1st Year Academic Program Prime Batch Part-03 Syllabus-2024 (Online)

	Physics 1st Paper (Reference Book: UDV(ISH Parallel Text)		
Chapter	Lecture	Syllabus	
	P-37	Falling Bodies, Kepler's Law <mark>of Planetary Motion</mark> , Gravit <mark>ation, Vec</mark> tor form of Gravitational Force, Moment of Inertia and Gravitational	
	F-37	Mass, Gravity and gravitational acceleration.	
		Determining the value of g: Relation between gravitational constant and gravitational acceleration, change of gravitational acceleration,	
Chapter-6	P-38	Change of Gravitational acceleration due to earth's shape, Change of Gravitational acceleration due to height from earth's surface,	
Gravitation		change of gravitational acceleration due to dept <mark>h,</mark> Change of gravitational acceleration due to earth's rotation.	
and	P-39	Center of Gravity, Gravitational Field, Gravitational Field Intensity.	
Gravity	P-40	Gravitational Potential, Relation between Gravitational field intensity and Gravitational potential, Gravitational Potential Energy.	
	P-41	Escape velocity, Application of the Laws of gravitational force, Application of the Laws of gravity in sloid sphere.	
	P-42	Relation between Newton's law of gravitation and Kepler's laws, Motion of Satellite. Geo-stationary satellite, Polar Satellite,	
		Weightlessness in space, Research and search for natural resources.	
	P-59	Gas, Pressure of gas, Volume of gas, Temperature of gas, amount of gas, Formulas of gas, Relation between pressure and volume, Relation	
	P-59	between volume and temperature, law of pressure.	
Chapter 10	P-60	Ideal gas, Features of Ideal Gas, Real gas, Molecular Kinetic Theory of gases, Postulates of gaseous atoms, Application of Molecular Kinetic	
Ideal gas		Theory.	
and	P-61	Mean free path, Degrees of freedom.	
kinetics of	P-62	One molecular, two molecular and three molecular gas, Linear molecular gas, non-linear molecular gas, Law of equal distribution of energy.	
qases		Water vapor and air pressure, Evaporation, condensation, saturated and non-saturated pressure, relation between pressure and volume	
0	P-63	of water vapor in isothermal condition, due point and relative humidity.	
	D. (1	Due point, Humidity, Relative humidity and due point, Devices to measure humidity, Wet and dry bulb thermometer, Some phenomena on	
	P-64	Hygrometry.	

	P-43	Inter-molecular force, Molecular force in solid, liquid and gaseous substance, Bonds, Elasticity and its classification, Attraction force and
Chapter-7	P-45	repulsion force and potential energy, Graph of force.
Structural	P-44	Graph of Potential Energy, Summary of the graph, Quantities of elasticity, Stress and strain in various objects.
Properties	P-45	Types of strain, Types of stress, Hooke's law, Modulus of elasticity, relation between various modulus
of	P-46	Elastic potential energy, Poisson's ratio.
Matter	D 47	Flow of fluids, turbulent flow, Viscosity, Friction and viscosity, Effect of pressure and temperature on viscosity modulus, Reynold's
Matter	P-47	Number, Stokes' law.
	P-48	Terminal Velocity, Surface tension, Effects of various factors on surface tension, capillarity.
		Periodicity, Spatial periodicity, Temporal Periodicity, features of periodic motion, Oscillation, Simple Harmonic Motion, Ideal spring, Spring
	P-49	constant, Motion of an object connected to ideal spring, Conditions of simple harmonic motion, Differential equation of simple harmonic
Chapter-8		motion, Solution of the differential equation of simple harmonic motion.
Periodic	P-50	Quantities of simple harmonic motion, Displacement, velocity and acceleration in simple harmonic motion.
Motion	P-51	Graph of simple harmonic motion, Relation between circular motion and simple harmonic motion.
1.001011	P-52	Energy of simple harmonic motion, Potential energy in spring, change of energy with time, Graph, Change of energy with displacement, graph.
	P-53	Application of simple harmonic motion, <mark>Mo</mark> tion i <mark>n vertical</mark> plane, Motion of compound spring, Motion of simple pendulum, Explanation of
	P-55	the laws of simple pendulum, Applicati <mark>on o</mark> f sim <mark>ple pendu</mark> lum.
	P-54	Waves, Mechanical Waves, Origin of different Mechanical Waves, Transverse Waves, Longitudinal Wave, Electromagnetic Wave, Waves and
	F-34	Energy, Expressions and Equations Related to Wave, Change of Medium
Chapter-9	P-55	Progressive Waves, Phase differen <mark>ce and Pa</mark> th difference of Progressive Waves.
Wave	P-56	Superposition of Waves, Stationar <mark>y Wave.</mark>
	P-57	Beat.
Ī	D 50	Free and Forced Vibration, Resonance, Intensity of Wave, Standard Intensity and Intensity Level, Harmonics and Musical Scales, Musical
	P-58	Sound, Tone and Note, Vibra <mark>tion</mark> of String, Vibration of Air Column.

	Chemistry 1st Paper (Reference Book: UDVASH Parallel Text)		
Chapter	Lecture	Syllabus	
	C-01	Safe use of Laboratory-Apron <mark>s, masks, safety glass</mark> es, gloves, lab rules/golden rules, Solvent measuring device and its uses- Chemical analysis, test	
	C-01	tubes, beakers, burettes, pipette <mark>s, volumetric flasks, co</mark> nical f <mark>lasks, wa</mark> sh bottles, measuring cylinders, techniques for cleaning glassware.	
		Solute measuring instruments - chemical instruments, Paul-Bunge balances, method of weighing in balances, digital balances.	
	C-02	Concentration- Molarity, Molality, Dilution, Standard Substances (Primary & Secondary), Titration- Method, Indicator, End Point &	
Chapter-1		Equivalent Point, Formulation of Titration Equations + Math.	
Safe Use		Heating Techniques with Laboratory Apparatus-Bunsen Burner & Flame, Heating Techniques in Round Bottom Flasks, Conical flask heating	
of	C-03	technique, Water bath heating technique, Porcelain bowl heating technique, Test tube heating technique, Beaker heating technique. Storage, Use,	
Laboratory		Precautions and Disposal of Chemicals- Storage of Chemicals, Waste Management, Use and Precautions of Chemicals.	
-		Effects of Chemicals on Environment and Moderate Use - Environmental Pollution by Airborne Substances, Environmental Pollution by	
	C-04	Laboratory Solid and Liquid Substances, Effects of chemicals on Environment and Health, moderate use of chemicals, analytical methods	
	C-04	(macro, semi-micro, micro), laboratory safety equipment and rules of use - fume hood, blanket, laboratory kit, eyecup, sink, use of fire	
		extinguisher, first aid box, first aid and Use of first aids.	
	C-37	Chemical Reaction and Rate of Reaction- Green Chemistry, Reaction Direction:(Irreversible Reaction and Reversible reaction), Rate of	
	C-37	reaction.	
-	C-38	Rate constant	
-	C-39	Order of reaction	
-	C-40	molecularity of reaction	
-	C-41	Effect of temperature on rate of reaction (Arrhenius equation), Activation energy, Collision theory.	
Chapter-4	C-42	Effect of Pressure on rate of reaction, Effect of concentration on rate of reaction, Effect of catalyst on rate of reaction.	
Chemical	C-43	Equilibrium of Chemical Reaction- Equilibrium and its Dynamics, Le-Chatelier's Principle	
Changes	C-44	Effect of temperature, pressure and concentration on equilibrium, Use in industry (Le-Chatelier's Principle).	
ľ	C-45	Law of mass action, Discussion about equilibrium constant ( $ m K_{p}$ and $ m K_{c}$ ).	
	C-46	Derivation of mathematical expression of $K_p$ and $K_{c'}$	
-	C-47	Acid-Base equilibrium- Theories related to acid-base, lonic product of water	
-	C-48	Dissociation constant of acid-base, Degree of dissociation, Acid-Base strength.	
ŀ	C-49	P <sub>H</sub> & P <sub>OH</sub>	
	C-49		

	C-51	Thermochemistry- Law of conservation of mass and energy, Thermochemical equation, Heat of reaction.
	C-52	Bond energy, Lavoisier and Hess's law, determining heat of reaction using Lavoisier and Hess's law.
	C-53	Food Safety- (Chemistry in enhancing food production, Importance of various elements as fertilizers, Role of chemistry in food
	C-53	preservation, Drying method of foodstuff, Cooling method of foodstuff).
Chapter-5	C-54	Food Preservatives- (Natural Food Preservatives, Artificial Food Preservatives, Anti-Microbial Agents, Antioxidants, Vinegar).
Vocational	C-55	Food Fractionation- (Stages of Fractionation Fruit Fractionation, Vegetable Fractionation, Fish Fractionation).
Chemistry		Mixture- (Colloid, Colloid filtration, Suspension, Preparation of Butter from Milk), TOILETRIES & PERFUMERIES- Rose water preparations,
	C-56	hair oil preparations, telcom powder preparations, vanishing cream preparations, cold cream preparations, lipstick preparations, after
		shave preparations, henna extract), Cleaners and detergents- (glass cleaner, toilet cleaner).

	H.Math 1st Paper (Reference Book: UDVASH Parallel Text)	
Chapter	Lecture	Syllabus
	HM-59	Exercise - 9.1; Primary discussion of limit, Undefined, Indeterminate limits, Existence of limit, Limit, Characteristics of limit, limits at infinity, infinite limits, some special limits.
		Exercise - 9.1; <i>Existence of</i> limits and general limits, factorization, $x \rightarrow a \frac{x^n - a^n}{x - a}$ , Multiplying numerator and denominator by conjugate,
	HM-60	Exercise - 9.1; Existence of limits and general limits, factorization, $x \to a \frac{1}{x-a}$ , Multiplying numerator and denominator by conjugate,
	HM-61	Exercise - 9.1; infinite limit. $\lim_{x \to 0} \frac{\sin x}{x}$ ; $\lim_{x \to 0} (1+x)^{\frac{1}{x}}$ ; $\lim_{x \to \infty} (1+x)^{\frac{1}{x}}$ ; $\lim_{x \to \infty} (1+\frac{1}{x})^{x}$ related.
	HM-62	Exercise - 9.2; Continuity of function, Sandwich Theorem.
	HM-63	Exercise - 9.2; Differentiability of a function, Differentiation by first principle.
	HM-64	Exercise - 9.2; General formulas related to differentiation. Exercise - 9.3; Differentiation of product of functions. Differentiation of quotient of functions,
Chapter-9	HM-65	Exercise - 9.4; Differentiation of composite function.
Differentiation	HM-66	Exercise - 9.4; Inverse trigonometric function, Differentiation using logarithm.
	HM-67	Exercise - 9.4; <i>L'Hôpital's <mark>Rule (</mark>Admission Special), Exercise - 9.5: Derivative of implicit function,</i>
	HM-68	Exercise - 9.5: Differentiation of parametric equations. Differentiation of a function with respect to another function, Exercise - 9.6;
	1114-00	Successive differentiation, nth derivative.
	HM-69	Exercise - 9.6; Proof related to different successive differentiations, Exercise - 9.7; Physical Application.
	HM-70	Exercise - 9.7; Geometrical Application.
	HM-71	Exercise - 9.8; Increasing function, decreasing function, maxima, minima.
	HM-72	Exercise - 9.8; Problems related to maxima and minima.
	HM-25	Exercise - 4.1; Concept of Circle, Equation of the circle with center at the origin and radius r, Equation of a circle with specific center and radius, General Equation of Circle, Some Characteristics of general equation of circle/Conditions for the equation of circle, The sign of g
		and f in different quadrants, Classification of Circle, Position of a point according to the circle.
	HM-26	Exercise - 4.1; Determination of the equation of a circle using terminal points of diameter, Determining the end points of diameter of a
		circle Intersection of axes by circle and regarding tangent, Equation of circle not touching or intersecting any of the axes, Equation of
		circle when its center and any point on the circumference is given.
Chapter-4	HM-27	Exercise - 4.1; Equation of circle passing through the intersection of a straight line/circle and another circle, Equation of circle passing
Circle		through three fixed points, Equation of circle with center residing on a specific straight line, Related to Circumcircle and Incircle, Exercise
		- 4.2; Equation of tangent and normal of circle at a fixed point.
	HM-28	Exercise - 4.2; Problems on tangents drawn from points outside the circle, Regarding the determination of the length of a chord of a
	1114 20	circle, Determining the coordinates of the nearest and farthest point of the circle from the specified point/line.
	HM-29	Exercise - 4.2; Relative position of two circles, Radical axis and common chord.
	HM-30	Exercise - 4.2; Number of common tangents of two circles and determination of their equation, Polar Equation of Circle, Parametric Equation of Circle.
	HM-31	Exercise - 5.1; Addition & multiplication rules of counting Permutation, Factorial & use of $nP_r$ formula, permutation of identical objects,
		Total permutation of arrangement in n numbers of colors letters (items) taken all at a time, Permutation in case of repetition.
	HM-32	Exercise - 5.1; Keeping some letters (items) together or separate, Not keeping some letters (items) in consecutive position, the position of
Chapter-5	1111 32	the letter (or object) is specific, related to rearrangement, Some specific letters (or items) will not change their order.
Permutation		Exercise - 5.1; Changing of relative positions of some specific letters (or items), Permutation of specific letters from words with different
and	HM-33	letters, Number formation of specific digits, Formation of odd numbers, Formation of even numbers, Smallest and greatest number from
Combinations		a specific number.
	HM-34	Exercise - 5.1; Cyclic permutation, Exercise - 5.2; Combination, Difference between Permutation and Combinations, Supplementary
		Combination, Problems related to the use of $nC_r$ formula, Selection Related, Conditional combination – accepts or excludes a specified
		number of objects.

		Exercise - 5.2; Word formation through combination, forming a team or committee, Determine the number of factors, Construct straight
	HM-35	
		lines, triangles, polygons, diagonals and planes from points.
	HM-36	Exercise - 5.2; Determine the intersection point, Division into teams or groups, Problem related to division into teams or groups, Divisibility.
	HM-73	Exercise – 10.1; Primary discussion of Integration, Some Properties of Integration.
	HM-74	Exercise – 10.1; Integration using general formulae, Integration after simplification, Exercise – 10.2; Method of Substitution, $\int (ax + b)^n dx$ , $\int sin^n x dx$ , $\int cos^n x dx$ .
	HM-75	Exercise – 10.2; In the form of $\int \sin Ax \cos Bx  dx$ , $\int \sin Ax \sin Bx  dx$ , $\int \cos Ax \cos Bx  dx$ , $\int \sin^m x \cos^n x  dx$ , $\int \ln the$ form of $\int \frac{dx}{1+\sin ax}$ , $\int \frac{dx}{1+\cos ax}$
	HM-76	Exercise – 10.3; Ideal Integral, In the form of $\int f(x) \cdot f'(x) dx$ , $\int f(g(x)) g'(x) dx$ , In the form of $\int \frac{f'(x)}{f(x)} dx = \ln f(x)  + c$ , $\int \frac{f'(x)}{\sqrt{f(x)}} = 2\sqrt{f(x)} + c$ .
	HM-77	Exercise – 10.3; Ideal Integral, In the form of $\int f(x) \cdot f'(x) dx$ , $\int f(g(x)) g'(x) dx$ , In the form of $\int \frac{f'(x)}{f(x)} dx = \ln f(x)  + c$ , $\int \frac{f'(x)}{\sqrt{f(x)}} = 2\sqrt{f(x)} + c$ . Exercise – 10.3; Fractions of Quadratic Equation and Irrational forms, In the form of $\int \frac{ax+b}{cx+d} dx$ , $\int \frac{ax+b}{\sqrt{cx+d}} dx$ , Related to $a^2 + x^2$ , $a^2 - x^2$ , $x^2 - a^2$ , In the form of $\int \frac{dx}{dx} = \frac{1}{2} \int \frac{dx}{\sqrt{cx+d}} = 1$
Chapter-10	HM-78	Exercise - 10.3; $\int \frac{x^2 dx}{ax^4 + bx^2 + c}$ ; $\int \sqrt{\frac{a+x}{a-x}} dx$ , $\int \frac{dx}{\sqrt{cx+d}} dx$ , $\int \frac{dx}{a \cos^2 x + b \sin^2 x}$ ; $\int \frac{dx}{a \cos^2 x + b \sin^2 x}$ ; $\int \frac{dx}{a \cos^2 x + b \sin^2 x}$ ; $\int \frac{dx}{a \cos^2 x + b \sin^2 x}$ . Exercise - 10.3; $\int \frac{x^2 dx}{ax^4 + bx^2 + c}$ ; $\int \sqrt{\frac{a+x}{a-x}} dx$ , $\int \frac{\sqrt{ax+b}}{\sqrt{cx+d}} dx$ form, $\int \frac{a \cos x + b \sin x}{c \cos x + d \sin x} dx$ ; form, $\int \frac{dx}{a + be^{mx}}$ , $\int \frac{dx}{a + be^{mx}}$ and $\int \frac{dx}{ae^{mx} + be^{-mx}}$ form, $\int \frac{e^{mx} + e^{nx}}{e^{px} + e^{qx}} dx$ where, $m - n = p - q$ , $\int \frac{dx}{g(x) \sqrt{d(x)}}$ ; where $g(x) \& \phi(x)$ are polynomial function
Integration	HM-79	Exercise – 10.4; Integration by Parts, Use of LIATE, $\int \sec^n x  dx$ ; $\int \csc^n x  dx$ , $\int e^{ax} \{a f(x) + f'(x)\} dx$ form.
	HM-80	Exercise – 10.5; Integration with help of Partial Fractions, $\frac{x}{(x-1)(x-2)'} \frac{x}{(x-1)^2(x-2)'} \frac{x}{(x-1)(x^2+1)}$ form, $\frac{x^3}{(x-1)(x-2)(x-3)}$ form.
	HM-81	Exercise – 10.6; Concept of Definite Integral, Definite Integral, Method of Substitution for Definite Integrals.
	HM-82	Exercise – 10.6; Special Characteristics <mark>of</mark> Defi <mark>nite Integr</mark> al, Net Marked Area, Definite Integral of Even & Odd Functions.
	HM-83	Exercise – 10.7; Area by Using Integration, The Area of the Region Enclosed by the Curve y = f(x) and x Axis within Certain Limits, The Area of the Region Enclosed by the Curve x = f(y) and y Axis within Certain Limits, The Area of the Region Enclosed by Two Curves and Two Straight Lines Parallel to y-Axis (Determination of Area in Respect of x-Axis), The Area of the Region Enclosed by Two Curves and Two Straight Lines Parallel to x-Axis (Determination of Area in Respect of y-Axis), Difference Between Integration and Area.
	HM-84	Exercise – 10.7; Symmetry, Problems Related to Determining Area.
	111101	Exercise – 2; Quantity, Types of vector quantities or different types of vectors, Addition of Vectors, Vector Subtraction, Internal and
	HM-07	external division of a line segment between two points, Geometric proofs using vector addition-subtraction concepts, Components of vectors, Projection & Component, Representation of a vector in two-dimensional cartesian coordinate, Representation of a Vector in Three Dimensional Cartesian Co-ordinariates.
Chapter-2	HM-08	Exercise – 2; Problems rel <mark>ated to</mark> addition, subtraction and quantification of vectors, Determination of unit vector towards, to the opposite or to the parallel of a vector, Multiplication of Vectors, Multiplication of vectors by a scalar quantity, Dot Product of Vectors (scalar multiplication).
Vector	HM-09	Scalar Product of Vectors and Problems Related to Two Perpendicular Vectors, Problems Related to Another Vector in The Same Plane As Two Other Vectors, Problems Related To Determination Of Included Angle Between Two Vectors, Determination Of Perpendicular Projectio and Component of Vectors, Vector/cross multiplication/product, Problems related to Vector Cross Product and Two Parallel Vectors.
	HM-10	Exercise – 2; Unit Vector Perpendicular to The Plain Formed by Two Vectors, some information related to area, Problems Related to Determination of the Area of Polygons Using Vectors, the volume of the solid and conditions for three vectors to be coplanar, Vector of Straight line and Cartesian Equations in a Three-Dimensional Co-ordinate System, Vector and Cartesian Equation of a Straight Line Passing Through Two Fixed Points.

	Botany (Reference Book: UDVASH Parallel Text)	
Chapter	Lecture	Syllabus
Chapter-5	B-27	Fungi (Characteristics, Physical Structure, Cellular Structure), Reproduction of Fungi (Vegetative Reproduction, Asexual Reproduction, Sexual Reproduction), Importance of Fungi (Beneficial and Harmful Effects).
Algae and Fungi	B-28	Agaricus (Habitat, Physical Structure), Economic Importance of Agaricus, Fungal Diseases, Lichen (Habitat, Characteristics, Structure, Classification), Importance of Lichen.
	B-19	Viruses: Contribution of scientists to the discovery of viruses, structure of viruses, types of viruses, parasitism of viruses, emerging viruses, subviral entities, T <sub>2</sub> bacteriophage, corona virus causing COVID-19.
Chaobas A	B-20	Life cycle of viruses, importance of viruses, viral diseases at a glance, description of some viral diseases.
Chapter-4 Microbes	B-21	Bacteria: Characteristics of bacteria: Distribution and habitat of bacteria: Types of bacteria, structure of ideal bacteria.
Microbes	B-22	Reproduction of bacteria, importance of bacteria, description of some bacterial diseases.
	B-23	Malaria: Malaria infection, treatment, prevention and control of malaria, life cycle of malaria parasite in human body.
	B-24	Life cycle of malaria parasite in mosquito body, alteration of generation of malaria parasite.
<b>Chapter-6</b> Bryophyta	B-29	Bryophyta: Introduction to Bryophytes, Characteristics of Bryophytes, Riccia: Characteristics, External Structure, Internal Structure, Reproduction of Riccia,Alteration of generation of Riccia.
and Pterydophyta	B-30	Pteridophyta: Characteristics of Pteridophyta, Pteris: Physical structure, Internal structure, Reproduction of Pteris, Alteration of generation of Pteris, Economic importance of Pteris.
Chapter-7	B-31	Gymnosperm (Introduction, Characteristics), Cycas (Characteristics, Structure, Reproduction).
Gymnosperm and Angiosp	B-32	Angiosperm (Introduction, Characteristics), Difference Between Gymnosperms and Angiosperms, Introduction to angiosperms: Habitat, Root, Stem, Leaf, Inflorescence.

	B-33	Aestivation, Placentation, Fruits.
	B-34	Floral formula, floral diagram, Poaceae family, Malvaceae family, differences between Poaceae and Malvaceae families, differences
		between monocots and dicots.

	Zoology (Reference Book: UDV(ISH Parallel Text)		
Chapter Lecture Syllabus			
	Z-19	Blood, blood components, plasma, red blood corpusle.	
	Z-20	White blood corpusle, types, platelet.	
Chapter-4	Z-21	Blood coagulation process, lymph, lymphatic system, types of <mark>b</mark> lood vessels.	
Human Physiology:	Z-22	Human heart (location, shape, covering, wall), structure of cardiac muscle, chambers of the heart, valves of the heart, circulation of blood through the heart.	
Blood and	Z-23	Heartbeat: cardiac cycle, myogenic control, conduction o <mark>f impu</mark> lses.	
Circulation	Z-24	Blood Pressure and Baroreceptors, Blood Circulatio <mark>n in the Hu</mark> man Body (Systemic, Pulmonary, Coronary, Portal)	
	Z-25	Heart disease, chest pain or angina, heart attack, heart failure, treatment concepts, mechanical pacemaker, open heart surgery, coronary bypass surgery.	
Chapter-5	Z-26	Respiration, Stages of Respiration (Exhal <mark>at</mark> ion a <mark>nd Inhalat</mark> ion), Difference between Exhalation and Inhalation, Parts of Respiratory System.	
Human	Z-27	Lungs, Function of the respiratory sys <mark>tem</mark> , vent <mark>ilation me</mark> chanism, Gaseous exchange.	
Physiology: Breathing and Respiration	Z-28	Control of ventilation, Diseases of respiratory system, Artificial respiration.	
Chapter-6 Human	Z-29	Different types of waste products of animals, human excretory system, structure and function of kidney, ultrastructure of kidney- nephron, function of nephron.	
Physiology: Wastes and Excretion	Z-30	Physiology of excretion (nitrogenous waste production and urine formation), urine, role of kidney in excretion and osmoregulation, renal failure, dialysis, renal transplantation, hormonal action.	

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