



# HSC 1st Year

## Academic Program Progressive Batch

### [Online/Combo]

(Two subject class per day)

#### Class and Exam Routine – last Part

Date & Day	Live Class: 1	Live Class: 2	Live Exam	Online: From 8:00am to 11:55pm
	1:30 pm	3:30 pm		Offline: From 9:00am to 5:00pm
01 March 2026 (Sunday)	<b>C-55</b> Chemistry: Chapter-5	<b>HM-32</b> H.Math: Chapter-4		Daily Live Exam <b>P-46</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-77</b> MCQ (10×1=10); 10 min.
02 March 2026 (Monday)	<b>Z-23</b> Zoology: Chapter-4	<b>C-56</b> Chemistry: Chapter-5		Daily Live Exam <b>C-55</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-32</b> MCQ (10×1=10); 10 min.
03 March 2026 (Tuesday)	<b>Z-24</b> Zoology: Chapter-4	<b>P-51</b> Physics: Chapter-8		Daily Live Exam <b>Z-23</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>C-56</b> MCQ (10×1=10); 10 min.
04 March 2026 (Wednesday)	<b>P-47</b> Physics: Chapter-7	<b>HM-78</b> H.Math: Chapter-10		Daily Live Exam <b>Z-24</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>P-51</b> MCQ (10×1=10); 10 min.
05 March 2026 (Thursday)	<b>P-48</b> Physics: Chapter-7	<b>HM-79</b> H.Math: Chapter-10		Daily Live Exam <b>P-47</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-78</b> MCQ (10×1=10); 10 min.
<b>06 March 2026 (Friday)</b>	<b>Chemistry Problem Solving Class-05</b>			
<b>07 March 2026 (Saturday)</b>	<b>H.Math 1st Paper Chapter-09 [Part-02 Lecture HM-71 to 76]; (CQ 2×10=20); Time: 50min &amp; Chapter-wise Exam-29 (Pre-Admission MCQ 10×1=10); Time: 10min.</b>			
08 March 2026 (Sunday)	<b>Z-27</b> Zoology: Chapter-5	<b>HM-33</b> H.Math: Chapter-4		Daily Live Exam <b>P-48</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-79</b> MCQ (10×1=10); 10 min.
09 March 2026 (Monday)	<b>Z-25</b> Zoology: Chapter-4	<b>HM-34</b> H.Math: Chapter-4		Daily Live Exam <b>Z-27</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-33</b> MCQ (10×1=10); 10 min.
10 March 2026 (Tuesday)	<b>Z-26</b> Zoology: Chapter-4	<b>P-52</b> Physics: Chapter-8		Daily Live Exam <b>Z-25</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-34</b> MCQ (10×1=10); 10 min.
11 March 2026 (Wednesday)	<b>P-53</b> Physics: Chapter-8	<b>HM-80</b> H.Math: Chapter-10		Daily Live Exam <b>Z-26</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>P-52</b> MCQ (10×1=10); 10 min.
12 March 2026 (Thursday)	<b>HM-35</b> H.Math: Chapter-5	<b>HM-81</b> H.Math: Chapter-10		Daily Live Exam <b>P-53</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-80</b> MCQ (10×1=10); 10 min.
<b>13 March 2026 (Friday)</b>	<b>H.Math Problem Solving Class-06</b>			
<b>Chapter-wise Exam-30</b>	<b>Chemistry 1st Paper Chapter-05 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>			
<b>14 March 2026 (Saturday)</b>	<b>Physics 1st Paper Chapter-07 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>			
15 March 2026 (Sunday)	<b>Z-28</b> Zoology: Chapter-5	<b>HM-36</b> H.Math: Chapter-5		Daily Live Exam <b>HM-35</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-81</b> MCQ (10×1=10); 10 min.
<b>Online classes and exams will be closed from March 16 to March 26 on the occasion of Shab-e-Qadr, Eid-ul-Fitr, and Independence Day.</b>				
Date & Day	Live Class: 1	Live Class: 2	Live Exam	Online: From 8:00am to 11:55pm
	2:30 pm	6:30 pm		Offline: From 9:00am to 5:00pm
<b>27 March 2026 (Friday)</b>	<b>Biology Problem Solving Class-05</b>			
<b>Chapter-wise Exam-32</b>	<b>H.Math 1st Paper Chapter-04 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>			
<b>28 March 2026 (Saturday)</b>	<b>Guideline Seminar-04</b>			
<b>Chapter-wise Exam-33</b>	<b>Zoology Chapter-04 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>			
29 March 2026 (Sunday)	<b>Z-29</b> Zoology: Chapter-5	<b>HM-37</b> H.Math: Chapter-5		Daily Live Exam <b>Z-28</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-36</b> MCQ (10×1=10); 10 min.
30 March 2026 (Monday)	<b>B-19</b> Botany: Chapter-4	<b>P-54</b> Physics: Chapter-8		Daily Live Exam <b>Z-29</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-37</b> MCQ (10×1=10); 10 min.
31 March 2026 (Tuesday)	<b>B-20</b> Botany: Chapter-4	<b>P-55</b> Physics: Chapter-9		Daily Live Exam <b>B-19</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>P-54</b> MCQ (10×1=10); 10 min.
01 April 2026 (Wednesday)	<b>P-56</b> Physics: Chapter-9	<b>HM-82</b> H.Math: Chapter-10		Daily Live Exam <b>B-20</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>P-55</b> MCQ (10×1=10); 10 min.
02 April 2026 (Thursday)	<b>HM-38</b> H.Math: Chapter-5	<b>HM-83</b> H.Math: Chapter-10		Daily Live Exam <b>P-56</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-82</b> MCQ (10×1=10); 10 min.
<b>03 April 2026 (Friday)</b>	<b>Zoology Chapter-05 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>			
<b>04 April 2026 (Saturday)</b>	<b>Physics 1st Paper Chapter-08 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>			
05 April 2026 (Sunday)	<b>Z-30</b> Zoology: Chapter-6	<b>HM-39</b> H.Math: Chapter-5		Daily Live Exam <b>HM-38</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-83</b> MCQ (10×1=10); 10 min.
06 April 2026 (Monday)	<b>B-21</b> Botany: Chapter-4	<b>P-57</b> Physics: Chapter-9		Daily Live Exam <b>Z-30</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-39</b> MCQ (10×1=10); 10 min.

07 April 2026 (Tuesday))	<b>B-22</b> Botany: Chapter-4	<b>P-58</b> Physics: Chapter-9	Daily Live Exam <b>B-21</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>P-57</b> MCQ (10×1=10); 10 min.
08 April 2026 (Wednesday)	<b>P-59</b> Physics: Chapter-9	<b>HM-84</b> H.Math: Chapter-10	Daily Live Exam <b>B-22</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>P-58</b> MCQ (10×1=10); 10 min.
09 April 2026 (Thursday)	<b>HM-40</b> H.Math: Chapter-5	<b>HM-85</b> H.Math: Chapter-10	Daily Live Exam <b>P-59</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-84</b> MCQ (10×1=10); 10 min.
<b>10 April 2026 (Friday) Chapter-wise Exam-36</b>	<b>H.Math Problem Solving Class-07</b> <b>H.Math 1st Paper Chapter-10 [Part-01 Lecture HM-77 to 82]; (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>		
12 April 2026 (Sunday)	<b>B-23</b> Botany: Chapter-4	<b>HM-09</b> H.Math: Chapter-2	Daily Live Exam <b>HM-40</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-85</b> MCQ (10×1=10); 10 min.
13 April 2026 (Monday)	<b>Z-31</b> Zoology: Chapter-6	<b>HM-10</b> H.Math: Chapter-2	Daily Live Exam <b>B-23</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-09</b> MCQ (10×1=10); 10 min.
<b>Online classes and exams will be closed on April 14 on the occasion of Pehela Boishakh.</b>			
15 April 2026 (Wednesday)	<b>Z-32</b> Zoology: Chapter-6	<b>HM-86</b> H.Math: Chapter-10	Daily Live Exam <b>Z-31</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-10</b> MCQ (10×1=10); 10 min.
16 April 2026 (Thursday)	<b>B-29</b> Botany: Chapter-6	<b>HM-87</b> H.Math: Chapter-10	Daily Live Exam <b>Z-32</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-86</b> MCQ (10×1=10); 10 min.
<b>17 April 2026 (Friday) Chapter-wise Exam-37</b>	<b>H.Math 1st Paper Chapter-05 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>		
<b>18 April 2026 (Saturday) Chapter-wise Exam-38</b>	<b>Zoology Chapter-06 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>		
19 April 2026 (Sunday)	<b>B-30</b> Botany: Chapter-6	<b>HM-11</b> H.Math: Chapter-2	Daily Live Exam <b>B-29</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-87</b> MCQ (10×1=10); 10 min.
20 April 2026 (Monday)	<b>B-31</b> Botany: Chapter-7	<b>HM-12</b> H.Math: Chapter-2	Daily Live Exam <b>B-30</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-11</b> MCQ (10×1=10); 10 min.
21 April 2026 (Tuesday)	<b>B-24</b> Botany: Chapter-4	<b>P-60</b> Physics: Chapter-9	Daily Live Exam <b>B-31</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-12</b> MCQ (10×1=10); 10 min.
22 April 2026 (Wednesday)	<b>B-32</b> Botany: Chapter-7	<b>B-33</b> Botany: Chapter-7	Daily Live Exam <b>B-24</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>P-60</b> MCQ (10×1=10); 10 min.
23 April 2026 (Thursday)	<b>B-34</b> Botany: Chapter-7	<b>HM-88</b> H.Math: Chapter-10	Daily Live Exam <b>B-32</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>B-33</b> MCQ (10×1=10); 10 min.
24 April 2026 (Friday)	Biology Problem Solving Class-06	Physics Problem Solving Class-06	Daily Live Exam <b>B-34</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-88</b> MCQ (10×1=10); 10 min.
<b>25 April 2026 (Saturday) Chapter-wise Exam-39</b>	<b>H.Math Problem Solving Class-08</b> <b>Botany Chapter-06 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>		
<b>26 April 2026 (Sunday) Chapter-wise Exam-40</b>	<b>Guideline Seminar-05</b> <b>H.Math 1st Paper Chapter-02 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>		
<b>27 April 2026 (Monday) Chapter-wise Exam-41</b>	<b>Botany Chapter-04 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>		
<b>28 April 2026 (Tuesday) Chapter-wise Exam-42</b>	<b>Physics 1st Paper Chapter-09 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>		
<b>29 April 2026 (Wednesday) Chapter-wise Exam-43</b>	<b>Botany Chapter-07 (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>		
<b>30 April 2026 (Thursday) Chapter-wise Exam-43</b>	<b>H.Math 1st Paper Chapter-10 [Part-02 Lecture HM-83 to 88]; (CQ 2×10=20); Time: 50min &amp; (Pre-Admission MCQ 10×1=10); Time: 10min.</b>		
<b>The next paper final exam routine will be published...</b>			
<b>***The routine can change or be modified in case of special necessities***</b>			

#### Online Class and Exam Procedure:

- To participate in classes and exams, visit [udvash.com](http://udvash.com) and click on the "Join Now" menu. Log in using your admitted registration number.
- Daily Live** Classes will be held as per the schedule, with **two separate subject classes per day** at the mentioned date and time.
- Daily Live Exams** will be available as per the schedule from **8:00am to 11:55pm**, where students can take the exam once per with **two separate Subject**. However, for additional practice, students can take the Practice Exam multiple times with the same syllabus.
- To watch recorded videos and PDFs of daily classes, use the "**Past Classes/Course & Content**" option.
- To access **Archive Classes & One Shot CQ-MCQ Classes**, use the "**Course & Content**" option.
- The **Q&A** option is available **24/7** to resolve subject-related queries after the class.
- All students enrolled in the Combo Batch can take chapter-based exams both online and at any nearby branch (from 9:00am to 5:00pm).
- To get updates quickly, join our Facebook group ([HSC & Admission উদ্ভাস-উন্মেষ](#)).

#### HSC 1st Year Academic Program Progressive Batch (Class & Exam Syllabus-04)

Physics 1st paper Reference Book: **মাতালাল TEXT**

Chapter	Lecture	Lecture-based discussion
<b>Chapter-7</b> Structural Properties of Matter	P-47	Stokes' law, terminal velocity, surface tension, factors affecting surface tension of liquids.
	P-48	Surface energy, capillarity, and mathematical problems.
<b>Chapter-8</b>	P-51	CQ & Admission Standard mathematical problems related to displacement, velocity, and acceleration in simple harmonic motion, graphs of simple harmonic motion.

Periodic Motion	P-52	Energy associated with simple harmonic motion, potential energy stored in spring, energy variation with time, graph of energy vs. displacement.
	P-53	Applications of simple harmonic motion, oscillation in the vertical plane, combined oscillations in springs, motion of a simple pendulum, derivation of the time period formula for a simple pendulum.
	P-54	Applications and mathematical problems related to the simple pendulum.
Chapter-9 Wave	P-55	Waves, mechanical waves, origin of different mechanical waves, transverse waves, longitudinal waves, electromagnetic waves, waves and energy, different wave parameters and equations, medium transition.
	P-56	Progressive waves, equation of progressive waves, phase difference and path difference in progressive waves.
	P-57	Wave interference, stationary waves.
	P-58	Beats or sound modulation.
	P-59	Free and forced vibrations, resonance, wave intensity, standard intensity and intensity level, harmonics and sound spectrum, audible sound, musical notes and tones.
	P-60	Vibration in a stretched string, vibration in air columns, and mathematical problems.

Chemistry 1st Reference Book: मातालाल TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter-5 Vocational Chemistry	C-55	Food Fractionation- (Stages of Fractionation Fruit Fractionation, Vegetable Fractionation, Fish Fractionation).
	C-56	Mixture- (Colloid, Colloid filtration, Suspension, Preparation of Butter from Milk), Toiletries & Perfumeries- Rose water preparations, hair oil preparations, telecom 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: मातालाल TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter-4 Circle	HM-32	Exercise - 4.2; Problems related to tangent drawn from a point outside the circle, Determining the length of a chord of a circle.
	HM-33	Exercise - 4.2; Mutual position of two circles, fundamental axis and common chord.
	HM-34	Exercise - 4.2; Determining the number of common tangents of two circles and their equations, Polar equation of a circle, Parametric equation of a circle.
Chapter-5 Permutations and Combinations	HM-35	Exercise - 5.1; Addition and multiplication rules of counting, permutation, use of factorial and ${}^n P_r$ formula.
	HM-36	Exercise - 5.1; permutation of objects that are not all different, total arrangement of all n different letters (things), permutation of such cases where repetitions can occur, in such cases permutation, How many letters (or objects) can be put together or not, How many specific letters (or objects) can never be put together, the position of a letter (or object) is fixed.
	HM-37	Exercise - 5.1; Regarding rearrangement, certain letters (or objects) will not change the order Change in relative position of certain letters (or objects), permutation of certain letters from words with different letters, formation of numbers of certain digits, formation of odd numbers, formation of even numbers, numbers smaller and greater than a certain number.
	HM-38	Exercise - 5.1; Cycle permutation, Exercise - 5.2; Combination, difference between permutation and combination, complementary combination, problems related to the use of ${}^n C_r$ formula, selection related.
	HM-39	Exercise - 5.1; Conditional combination-including or excluding a certain number of objects, Exercise - 5.2; Word formation through combination.
Chapter-10 Integration	HM-40	Exercise - 5.2; formation of groups or committees, determination of generative number, formation of straight lines, triangles, polygons, diagonals and planes from points, Determination of intersection point, division into groups or groups, problems related to division into groups or groups, divisibility.
	HM-78	Exercise - 10.1; Integration by simplification, Exercise - 10.2; Substitution method, $\int f(x) \cdot f'(x) dx$ , $\int f(g(x)) g'(x) dx$ ,
	HM-79	Exercise - 10.2; Of shape $\int \sin Ax \cos Bx dx$ , $\int \sin Ax \sin Bx dx$ , $\int \cos Ax \cos Bx dx$ , $\int \sin^m x \cos^n x dx$ , $\int \frac{dx}{1 \pm \sin ax}$ , $\int \frac{dx}{1 \pm \cos ax}$ , $\int (ax + b)^n dx$ , $\int \sin^n x dx$ , $\int \cos^n x dx$ .
	HM-80	Exercise - 10.3; Ideal integral, of shape $\int \frac{f'(x)}{f(x)} dx = \ln f(x)  + c$ , $\int \frac{f'(x)}{\sqrt{f(x)}} = 2\sqrt{f(x)} + c$ .
	HM-81	Exercise - 10.3; Fractions and irrational shape of quadratic expressions, in case of $\int \frac{ax+b}{cx+d} dx$ , $\int \frac{ax+b}{\sqrt{cx+d}} dx$ , $\int \frac{ax+b}{(cx+d)^n} dx$ shape, $a^2 + x^2$ , $a^2 - x^2$ , $x^2 - a^2$ related, of shape $\int \frac{dx}{a \cos^2 x + b \sin^2 x + c}$ .
	HM-82	Exercise - 10.3; Of shape $\int \frac{a+x}{a-x} dx$ , $\int \frac{\sqrt{ax+b}}{\sqrt{cx+d}} dx$ , $\int \frac{a \cos x + b \sin x}{c \cos x + d \sin x} dx$ , $\int \frac{dx}{a + be^{mx}}$ , $\int \frac{dx}{a + be^{-mx}}$ and $\int \frac{dx}{ae^{mx} + be^{-mx}}$ $\int \frac{e^{mx} + e^{nx}}{e^{px} + e^{qx}} dx$ where, $m - n = p - q$ , $\int \frac{dx}{g(x) \cdot \phi(x)}$ ; where $g(x)$ and $\phi(x)$ are polynomial function.
	HM-83	Exercise - 10.4; Integration by parts, use of LIATE, (Determining integration by parts), $\int \sec^n x dx$ ;
	HM-84	Exercise - 10.4; $\int e^{ax} \{a f(x) + f'(x)\} dx$ , Exercise - 10.5; Integration using partial fractions, $\frac{x}{(x-1)(x-2)}$ , $\frac{x}{(x-1)^2(x-2)}$ , $\frac{x}{(x-1)(x^2+1)}$ , $\frac{x^3}{(x-1)(x-2)(x-3)}$ .
	HM-85	Exercise - 10.6; Concept of definite integral, properties of definite integral, Fundamental theorem of calculus, use of fundamental theorem of calculus, substitution method in case of definite integral, problems related to use of substitution method in case of definite integral.
	HM-86	Exercise - 10.6; Special properties of definite integral, area with net sign, definite integration of even and odd functions, integration of functions with absolute value, integration by graph shifting.
HM-87	Exercise-10.7; Area determination by integration, Area of the region bounded by the line $y=f(x)$ and the x-axis within a certain limit, Area of the region bounded by the line $x=f(y)$ and the y-axis within a certain limit, Area of the region bounded by two curves and two straight lines parallel to the y-axis (area determination with respect to the x-axis), Area of the region bounded by two curves and two straight lines parallel to the x-axis (area determination with respect to the y-axis), Difference between integration and area.	
HM-88	Exercise - 10.7; Symmetry, Area determination related problems.	
Chapter-2	HM-09	Exercise - 2; Quantities, vectors, types of quantities or different types of vectors, vector addition, vector subtraction, internal and external division of a segment between two points, geometric proof problems using the concept of vector addition and subtraction.

Vector	HM-10	Exercise - 2; Vector division (components of a vector), projection and component, expressing of a vector in a two-dimensional Cartesian coordinate system, expressing a vector in a three-dimensional Cartesian coordinate system, Problems related to addition and subtraction of vectors and determination of magnitude, determination of unit vectors in the direction, opposite direction or parallel to a vector, vector multiplication, multiplication of a vector quantity by a scalar quantity, dot multiplication of vectors (scalar multiplication).
	HM-11	Problems related to dot product of vectors and perpendicularity of two vectors, problems related to a vector lying in the same plane of another two vectors, problems related to determining the angle between two vectors, perpendicular projection of vectors and determination of components, vector/cross multiplication of vectors, cross product of vectors and problems related to two vectors being parallel.
	HM-12	Exercise - 2; Unit vector perpendicular to a plane formed by two vectors, some information about area, using vectors, problems related to finding the area of a polygon, volume of a cube and the condition for three vectors to be co-planar, vectors and Cartesian equations of a straight line in three-dimensional coordinate system, vectors and Cartesian equations of a straight line through two given points.

Biology 1st Paper Reference Book: मातालाल TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter-4 Microorganisms	B-19	virus: contribution of scientists in the discovery of virus, structure of virus, classification of virus, parasitism of virus, emerging virus, subviral entities, T <sub>2</sub> bacteriophage, COVID-19 Corona virus
	B-20	Lifecyle of virus, importance of virus, viral diseases at a glance, description of some viral diseases
	B-21	Bacteria: Characteristics of bacteria: distribution and habitat of bacteria: types of bacteria, structure of an ideal bacterium
	B-22	Reproduction of bacteria, importance of bacteria, some bacterial diseases
	B-23	Malaria: Infection of malaria, Prevention and control of Malaria, Lifecyle of malarial parasite in human body
	B-24	Lifecyle of Malarial parasite in mosquito, Alternation of generation of malarial parasite
Chapter-6 Bryophyta and Pteridophyta	B-29	Bryophyta: Introduction to Bryophyta, Characteristics of Bryophyta, <i>Riccia</i> : Characteristics of <i>Riccia</i> , External Structure of <i>Riccia</i> , Internal structure of <i>Riccia</i> . Reproduction and alternation of generation of <i>Riccia</i>
	B-30	Pteridophyta: Characteristics of Pteridophyta, <i>Pteris</i> : Physical structure of <i>Pteris</i> , Internal Structure, Reproduction of <i>Pteris</i> , Alternation of generation in <i>Pteris</i> , Economic importance of <i>Pteris</i> .
Chapter-7 Gymnosperms and Angiosperms	B-31	Gymnosperms (Introduction, characteristics), <i>Cycas</i> (Characteristics, Structure, Reproduction)
	B-32	Angiosperms (Introduction, characteristics), Differences between Gymnosperm and angiosperm, Introduction to angiosperm families, Characteristics, Root, Stem, Leaf
	B-33	Inflorescence, Aestivation, Placentation, Fruits, Floral Formula, Floral Diagram
	B-34	Poaceae Family, Malvaceae Family, Differences between Poaceae and Malvaceae family, Differences between Monocot plant and dicot plant

Biology 2nd paper Reference Book: मातालाल TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter-4 Human Physiology: Blood and Circulation	Z-23	Heartbeat-Cardiac Cycle, Myogenic control of heartbeat and transmission of impulse
	Z-24	Blood Pressure and baroreceptor, Blood Circulation in humans (Systemic, Pulmonary, Coronary, Portal)
	Z-25	Cardiac Diseases, Chest Pain or Angina, Heart Attack, Heart Failure
	Z-26	Basic idea about treatment of cardiac disease, artificial pacemaker, Open heart surgery, Coronary Bypass surgery
Chapter-5 Human Physiology: Respiration and Breathing	Z-27	Respiration, Phases of respiration (Internal respiration and external respiration), Differences between internal and external respiration, Parts of the respiratory system
	Z-28	Lungs, Functions of the respiratory system, Breathing: inspiration and expiration, Gaseous exchange
	Z-29	Control of inspiration and expiration, Diseases of respiratory system, Artificial respiration
Chapter 6 Human Physiology: Waste and Excretion	Z-30	Various types of waste products in humans, excretory system of humans, Structure and function of kidney
	Z-31	Ultrastructure of kidney-Nephron, Functions of nephron, physiology of excretion (production of nitrogenous waste and formation of urine), Urine
	Z-32	Role of kidney in excretion and osmoregulation, kidney failure, dialysis, kidney transplant, hormonal action