	Biology Annual & Weekly Syllabus Split-Up - 2025-26 Grade XII														
S.No	Month	No. of Workin g Days		No. of Days	Торіс	Sub Topic	Resources	Activity	Mid April Test	Periodic Test 1	Pre Mid Term	Mid Term	Periodi c Test 2	Post Midter m	Annu al
			Week 1	3	C-1 Sexual Reproduction in plants	Flower structure, development of male and female gametophytes; pollination - types, agencies and examples; out breeding devices; pollen-pistil interaction; double fertilization.	senses board, word documents ,ppts,text,Referenc e books,videos	Flowers adapted to pollination by different agencies (wind, insects, birds). Pollen germination on stigma through a permanent slide or scanning electron micrograph.							
			Week 2	5	C-1. Sexual Reproduction in plants	Post fertilization events - development of endosperm and embryo, development of seed and formation of fruit; special modes- apomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation.	senses board, word documents ,ppts,text,Referenc e books,videos	Prepare a temporary mount to observe pollen germination.							
1	APRIL	23	Week 3	4	MID APRIL TEST - X & XII C-2.Human Reproduction	Male and female reproductive systems;Gametogenesis - spermatogenesis and oogenesis; menstrual cycle. Pregnancy,parturition and lactation	senses board, word documents ,ppts,text,Referenc e books,videos	Worksheet	*						
			Week 4	6	C-3.Reproductive Health	Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT	senses board, word documents ,ppts,text,Referenc e books,videos	T.S. of blastula through permanent slides (Mammalian).							
			Week 5	3	C-4.Principles of inheritance and Variations	Mendelian inheritance; deviations from Mendelism.Sex determination and linkage and crossing over. Mendelian disorders									

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			Week 1	0								
			Week 2	6	C-5.Molecular Basis of inheritance	Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation.						
			Week 3	6	C-5.Molecular Basis of inheritance	Gene expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting.						
3	JUNE	19	Week 4	6	C-6.Evolution	Origin of life; biological evolution and evidences for biological evolution (paleontology,comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy- Weinberg's principle; adaptive radiation; human evolution.						
			Week 5	1								
			Week 1	5	PERIODIC TEST 1 BEGINS (II-XII)	Revision	Textbbok	Worksheet	 <ul> <li>✓</li> </ul>			
4	JULY	27	Week 2	6	C-7. Human health and diseases	Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control;						
			Week 3 Week 4 Week 5	6 6 4		Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcoholabuse.						
			Week 1	2	C-8.Microbes in Human Welfare	Microbes in food processing						

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						Microbes in food processing, industrial							
			Week 2			production, sewage treatment, energy							
				5	Human Welfare	generation							
						microbes as bio-control agents and bio-							
			Week 3		C-8.Microbes in	fertilizers. Antibiotics; production and							
				5	Human Welfare	judicious use.							
					C-9.Biotechnology :	Principles and Processes of							
-			Week 4			Biotechnology.Vectors and Host and							
5	UGUS	23		6	Processes	PCR.							
				-									
						Application of biotechnology in health							
						and agriculture: Human insulin and							
					C-10.Biotechnology :	vaccine production, stem cell							
			Week 5			technology, gene therapy; genetically							
			week 5		0,	modified organisms - Bt crops;							
					Applications	transgenic							
						animals; biosafety issues, biopiracy and							
				_		patents.							
				5	-	No. 4 4	a						
			Week 1	5	Term 1	Revision	Sample Papers				×		
			Week 2	6	Term 1	Revision	Sample Papers				×		
			Week 3	6	Term 1	Revision	Sample Papers				✓	 	
6	PTEMB	25	Week 4		C-11.Organisms and	Population attributes	senses board, word						
				6	Populations	· <u>r</u>	documents						
			Week 5		C-11.Organisms and		,ppts,text,Referenc						
			W COLL D	2	Populations	Population interactions	e books,videos						
							senses board, word						
			Week 1		C-12 Ecosystem	Ecosystem	documents						
			WCCK I		C-12 Ecosystem	components, productivity, Energy flow	,ppts,text,Referenc						
				3			e books,videos						
7	CTOBE	13				BiodiversityPatterns, Loss of	senses board, word						
l í	CIODI	15	Week 2		its Conservation.	biodiversity, In situ and Ex situ	documents						
				6		conservation.	,ppts,text,etc.						
			Week 3	4	Recapitulation	Revision	https://youtu.be/W						
			Week 4	0	Diwali Break		6Us1jdXcrI						
			Week 5	0	Diwali Break		https://youtu.be/G						
			Week 1	0									
1			Week 2			Revision	senses board, word						
			WEEK 2	5	BEGINS		documents ,Sample						
8	VEMB	23	Week 3		PRE BOARD 1	Revision	papers						
0	, i LiviD	25	WEEK J	6									
			Week 4		PRE BOARD 1	Revision							
				6									
1			Week 5	6	Recapitulation	Revision							

			Week 1	6									
				0	PRE BOARD 2	Revision	senses board, word						
			Week 2	6	BEGINS		documents ,Sample						
9	CEMB	20	Week 3		PRE BOARD 2	Revision	papers						1
				6	BEGINS		+	Worksheets	 	 			
			Week 4	k 4 2 Practice Test I Begins	Practice Test I Begins	Revision							
			Week 5	0	Degilis								
			Week 1	0									
			Week 2	6									
			Week 3		PRE BOARD 3	Revision	senses board, word						
10	ANUAR		week 3	5	BEGINS		documents ,Sample						
10			Week 4		PRE BOARD 3	Revision	papers						
				6	BEGINS	<b>N</b> · · ·	ł	Worksheets		 +			
			Week 5	5	PRE BOARD 3 BEGINS	Revision							1
			Week 1	6	DEGINS								
				0	FINAL BOARD		senses board, word						<b>√</b> <sup></sup>
			Week 2	6	EXAM	Revision for Annual exam	documents ,Sample						1
			Week 3		FINAL BOARD	Revision for Annual exam	papers						<ul> <li>✓</li> </ul>
11	BRUAI	23	WEEK J	5	EXAM	Revision for Annual exam	ļ	Worksheets					
			Week 4		FINAL BOARD	Revision for Annual exam							1
				6	EXAM		+						
			Week 5	0	FINAL BOARD EXAM	Revision for Annual exam							1
			Week 1	5	L/X/XWI								
			Week 2	6									
12	MARCH	22	Week 3	5									
			Week 4	5									
			Week 5	1									