Biology Annual & Weekly Syllabus Split-Up - 2025-26	
Grade XII	

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	P.B-I	P.B-2	Annu al
			Week 1	3		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-	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				*		*	*	*	
			Week 1	0											<u> </u>
			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.					*	*	*	*	

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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 3	- 1	DEDIODIC	pi.i.	Translation In	W. J. J. J						
			Week 1	5	PERIODIC TEST 1 BEGINS (II- XII)	Revision	Textbbok	Worksheet						
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	6	C-7. Human health and diseases	Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcoholabuse.					*	~	~	
			Week 4	6		, and the second								
			Week 5	4										
			Week 1		C-8.Microbes in Human						*	~	~	
			Week 2	2	Welfare C-8.Microbes in Human Welfare	Microbes in food processing Microbes in food processing, industrial production, sewage					~	~	~	
			Week 3	5	C-8.Microbes in Human Welfare	treatment, energy generation microbes as bio-control agents and bio- fertilizers. Antibiotics; production and judicious use.					~	~	~	
5	AUGUS	23	Week 4	6	C- 9.Biotechnolog	Principles and Processes of Biotechnology. Vectors and Host and PCR.						*	*	
			Week 5	5	C- 10.Biotechnolo gy: Biotechnology and its Applications	Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms - Bt crops; transgenic animals; biosafety issues, biopiracy and patents.						*	*	
-			Week 1	5	Torm 1	Pavision	Cample Dances		1	 				
					Term 1	Revision	Sample Papers			-				
1			Week 2	6	Term 1	Revision	Sample Papers			<u> </u>				
1			Week 3	6	Term 1	Revision	Sample Papers			<u> </u>				
6	РТЕМЕ	25	Week 4	6	C- 11.Organisms and Populations	Population attributes	senses board, word documents ,ppts,text,Referenc e books,videos					*	*	
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					C-									
			Week 5		11.Organisms							✓	✓	
			week 3		and									
				2	Populations	Population interactions								
						1	senses board, word							
					C-12	Ecosystem	documents					✓	✓	
			Week 1			components,productivity,Energy flow						,		
				_	Ecosystem	components, productivity, Energy now	,ppts,text,Referenc							
				3			e books,videos							
7	CTOBE	13			C-13.	BiodiversityPatterns, Loss of	senses board, word						 ✓	
			Week 2		Biodiversity	biodiversity, In situ and Ex situ	documents					✓	•	
				6	and its	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										
					PRE BOARD	Revision	senses board, word							
			Week 2		1	Revision	documents							
			WCCK 2	5	BEGINS		,Sample papers							
						Revision	,sample papers				-			
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			Week 5	6	Recapitulation	Revision								
			Week 1	6										
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		20	Week 2		2 BEGINS		documents							
				6	2 BEGINS		,Sample papers							
						Revision	i							
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			Week 5	0										
			Week 1	0										
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			Week 3	IKI		Revision								
			week 5	5	3		documents							
10	ANUAR	22		3	BEGINS	- · · ·	,Sample papers							
10	MAUVIA	22	XX7 1 .		PRE BOARD	Revision			1	1				
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12	MARCI	22	Week 3	5										
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