O. P. JINDAL SCHOOL, SAVITRINAGAR, TAMNAR

Annual Syllabus Break-up for the session 2023-2024

SI.	Month	No. of Instructi onal days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
				Chapter2:Reproducti on in flowering plants Chapter3:Reproducti	To study pollen germination.	2.Reproduction, a characteristic feature o Flower structure; development of male andfemale gametophytes; pollination – types.	Assignment/Worksh eet of Reproduction in flowering plant ,MCQs
1	April	21	20	on in human	To study T,S of testis ,T.S of ovary	3.Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis - spermatogenesis and oogenesis etc	Assignment/Worksh eet of Reproduction in human ,MCQs
				Chapter-4 Reproductive health	To study T.S of blastula	4.Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs)	Assignment/Worksh eet of Reproductive health plant, MCQs

Subject: Biology Class: XII

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2	June	11	15	Chapter-11: Biotechnology - Principles and processes Chapter-12: Biotechnology and its Application	To isolate DNA from plant material	 11.Genetic Engineering (Recombinant DNATechnology) etc. 12.Application of biotechnology in health and agriculture: Human insulin and vaccine production etc. 	Assignment of Biotechnology ,MCQs Assignment of Biotechnology and its application, MCQs

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	l. l.			Chapter-8:Human Health and Diseases	To study disease causing organism- ascaris ,plasmodium	8.Pathogens; parasites causing human diseases (malaria, dengue, chickengunia etc.	Assignment/Worksh eet of Human health, MCQ
3	July	23	20	Chapter-10Microbes in human welfare	To prepare temporary mount of root tip to study mitosis	10.In household food processing, industrial production, sewage treatment	Assignment/Worksh eet of microbes in human welfare, MCQ

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					To study pedigree chart- blood group, ear lobes	5.Heredity and variation: Mendelian inheritance; deviations from Mendelism etc.	Assignment/Worksh eet of principle of inheritance, MCQ
				Chapter-5: Principles of Inheritance and Variation			
4	August	23	25	Chapter-6: Molecular Basis of Inheritance	To study mendelian inheritance	6.Search for genetic material and DNA as geneticmaterial; Structure of DNA and RNA; DNA packaging; DNA replication; Central dogma; transcription, genetic code etc.	Assignment/Worksh eet of molecular basis of inheritance, MCQ
				Chapter-7: Evolution	To study pollen germination on stigma.	7.Origin of life; biological evolution and evidencesfor biological evolution (paleontology, comparative anatomy, embryology and	Assignment/Worksh
						molecular evidences) etc.	eet of evolution, MCQ

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5	September	12	12	Revision and Assessment			

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6	October	20	18	Chapter-13: Organismsand Populations	To study plant population density by quadrat method	13.Organisms and environment: Habitat and niche, population and ecological adaptations etc.	Assignment/Worksh eet of organisms and populations ,MCQs
				Chapter-14: Ecosystem	To study symbiotic association in root nodules of leguminous plant	14.Ecosystems: Patterns, components; productivityand decomposition; energy flow etc.	Assignment/Worksh eet of ecosystem ,MCQ

s	. Month	No. of Instructi onal days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
7	November	13	11	Chapter-15: Biodiversity and its Conservation	To study controlled pollination- emasculation,bagging	15.Biodiversity- Concept, patterns, importance; loss of biodiversity; biodiversity conservation etc.	Assignment/Worksh eet of biodiversity ,MCQ

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8	December	19		Revision & Assessment			

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9	January	22		Revision & Assessment			

SI.	Month	No. of Instructi onal days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
10	February	15		Revision & Board Examinations			

SN	EXAMINATION	EXAMINATION'S MONTHS	MAX MARKS	Max Time	SYLLABUS FOR EXAMINATION
1	TEST – 1	July	20	1 Hr	Chapter-2 Sexual Reproduction in flowering plants Chapter-3 Human Reproduction
2	Half Yearly Examination	September	70	3 Hrs	Chapter-2,3,4,8,5,10,11,12
3	Pre Board	December-January	70	3 Hrs	Complete Syllabus
4	Board Examination	March	70	3 Hrs	Complete Syllabus