

# O.P.JINDAL SCHOOL, SAVITRI NAGAR, TAMNAR

## Annual Syllabus Break-up for the session 2025-2026

Subject: Biology    Class: XII

Sl.	Month	No. of Instructional days	No. of periods	Chapterstobetaught	Subject enrichment activities	Valuestobeimparted	Extra content to be taught
1	April	21	20	<p><b>Chapter1:Reproducti oninfloweringplants</b></p> <p><b>Chapter2:Reproducti on in human</b></p> <p><b>Chapter-3 Reproductive health</b></p>	<p><b>To studypollen germination.</b></p> <p><b>To study T,S of testis ,T.S of ovary</b></p> <p><b>To studyT.S of blastula</b></p>	<p>2.Reproduction, a characteristic feature Flower structure; development of male and female gametophytes; pollination – types.</p> <p>3.Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis - spermatogenesis and oogenesis etc</p> <p>4.Need for reproductive health and prevention of SexuallyTransmitted Diseases(STDs)</p>	<p>Assignment/Worksh eet of Reproduction in flowering plant ,MCQs</p> <p>Assignment/Worksh eet of Reproduction in human ,MCQs</p> <p>Assignment/Worksh eet of Reproductive health plant,MCQs</p>

Sl.	Month	No. of Instructional days	No. of periods	Chapters to be taught	Subject enrichment activities	Values to be imparted	Extra content to be taught
2	June	11	15	<b>Chapter-9: Biotechnology- Principles and processes</b>  <b>Chapter-10: Biotechnology and its Application</b>	To isolate DNA from plant material	11. Genetic Engineering (Recombinant DNA Technology) 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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3	July	23	20	<b>Chapter-7: Human Health and Diseases</b>  <b>Chapter-8: Microbes In human welfare</b>	To study disease causing organism-ascaris ,plasmodium  To prepare temporary mount of root tip to study mitosis	8. Pathogens; parasites causing human diseases (malaria, dengue, chickenpox etc.  10. In household food processing, industrial production, sewage treatment	Assignment/Worksheet of Human health, MCQ  Assignment/Worksheet of microbes in Human welfare, MCQ

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

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5	September	12	12	Revision and Assessment			

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6	October	20	18	<p><b>Chapter-11: Organisms and Populations</b></p> <p><b>Chapter-12: Ecosystem</b></p>	<p><b>To study plant population Density by quadrat method</b></p> <p><b>To study symbiotic Association in root nodules Of leguminous plant</b></p>	<p>13. Organisms and environment: Habitat and niche, population and ecological adaptations etc.</p> <p>14. Ecosystems: Patterns, components; productivity and decomposition; energy flow etc.</p>	<p>Assignment/Worksheet of organisms and populations ,MCQs</p> <p>Assignment/Worksheet of ecosystem ,MCQ</p>

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7	November	13	11	<b>Chapter-13: Biodiversity and its Conservation</b>	<b>To study controlled pollination-emasculatation ,bagging</b>	15.Biodiversity-Concept ,patterns, importance; loss of biodiversity; biodiversity conservation etc.	Assignment/Worksheet of biodiversity ,MCQ

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8	December	19		<b>Revision &amp; Assessment</b>			

Sl.	Month	No. of Instructi onal days	No. of periods	Chapters to be taught	Subject enrichment activities	Valuestobeimparted	Extra content to be taught
9	January	22		<b>Revision &amp;Assessment</b>			

Sl.	Month	No. of Instructi onal days	No. of periods	Chapters to be taught	Subject enrichment activities	Valuestobeimparted	Extra content to be taught
10	February	15		<b>Revision &amp;Board Examinations</b>			

**SYLLABUS FOR EXAMINATION**

SN	EXAMINATION	EXAMINATION'S MONTHS	MAX MARKS	Max Time	SYLLABUS FOR EXAMINATION
1	Periodic Test–1	June	20	1Hr	Chapter-2 Human Reproduction Chapter-3 Reproductive health
	Periodic Test-1	July	20	1Hr	Chater-9Biotechnology Chapter-10 Biotechnology and its applications
2	Half Yearly Examination	September	70	3Hrs	Chapter-1,2,3,4,7,8,9,10
3	PreBoard	December-January	70	3Hrs	Complete Syllabus
4	Board Examination	March	70	3Hrs	Complete Syllabus