

# O. P. JINDAL SCHOOL, SAVITRINAGAR, TAMNAR

## Annual Syllabus Break-up for the session 2026 -2027

**Subject: Biology Class: XII**

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
1	April	24		<p><b>Chapter1:Reproduction in flowering plants</b></p> <p><b>Chapter2:Reproduction in human</b></p> <p><b>Chapter-3 Reproductive health</b></p>	<p><b>To study pollen germination.</b></p> <p><b>To study T,S of testis ,T.S of ovary</b></p> <p><b>To study T.S of blastula</b></p>	<p>2.Reproduction, a characteristic feature of 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 Sexually Transmitted Diseases (STDs)</p>	<p>Assignment/Worksheet of Reproduction in flowering plant ,MCQs</p> <p>Assignment/Worksheet of Reproduction in human ,MCQs</p> <p>Assignment/Worksheet of Reproductive health plant, MCQs</p>

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2	June	13		<p><b>Chapter-9: Biotechnology - Principles and processes</b></p> <p><b>Chapter-10: Biotechnology and its Application</b></p>	To isolate DNA from plant material	<p>11. Genetic Engineering (Recombinant DNA Technology) etc.</p> <p>12. Application of biotechnology in health and agriculture: Human insulin and vaccine production etc.</p>	<p>Assignment of Biotechnology ,MCQs</p> <p>Assignment of Biotechnology and its application, MCQs</p>

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3	July	26		<p><b>Chapter-7: Human Health and Diseases</b></p> <p><b>Chapter-8: Microbes in human welfare</b></p>	<p>To study disease causing organism- ascaris , plasmodium</p> <p>To prepare temporary mount of root tip to study mitosis</p>	<p>8. Pathogens; parasites causing human diseases (malaria, dengue, chickengunia etc.</p> <p>10. In household food processing, industrial production, sewage treatment</p>	<p>Assignment/Worksheet of Human health, MCQ</p> <p>Assignment/Worksheet of microbes in human welfare, MCQ</p>

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4	August	22		<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	10		<b>Revision and Assessment</b>			

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6	October	19		<b>Chapter-11: Organisms and Populations</b>  <b>Chapter-12: Ecosystem</b>	<b>To study plant population density by quadrat method</b>  <b>To study symbiotic association in root nodules of leguminous plant</b>	13.Organisms and environment: Habitat and niche, population and ecological adaptations etc.  14.Ecosystems: Patterns, components; productivity and decomposition; energy flow etc.	Assignment/Worksheet of organisms and populations ,MCQs  Assignment/Worksheet of ecosystem ,MCQ

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7	November	15		<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	17		<b>Revision &amp; Assessment</b>			

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9	January	23		<b>Revision &amp; Assessment</b>			

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10	February	06		<b>Revision &amp; Board Examinations</b>			

**SYLLABUS FOR EXAMINATION**

<b>SN</b>	<b>EXAMINATION</b>	<b>EXAMINATION'S MONTHS</b>	<b>MAX MARKS</b>	<b>Max Time</b>	<b>SYLLABUS FOR EXAMINATION</b>
<b>1</b>	<b>Periodic Test – 1</b>	<b>June</b>	<b>20</b>	<b>1 Hr</b>	Chapter-1 Sexual Reproduction in flowering plants Chapter-2 Human Reproduction <hr/> Chapter-9 Biotechnology Chapter-10 Biotechnology and its applications
	<b>Periodic Test -1</b>	<b>July</b>			
<b>2</b>	<b>Half Yearly Examination</b>	<b>September</b>	<b>70</b>	<b>3 Hrs</b>	Chapter-1,2,3,4,5,6,9,10
<b>3</b>	<b>PT3(R-1)</b>	<b>October</b>	<b>20</b>	<b>1 Hr</b>	Chapter 11 , 12
<b>4</b>	<b>Pre Board</b>	<b>December-January</b>	<b>70</b>	<b>3 Hrs</b>	Complete Syllabus
<b>5</b>	<b>Board Examination</b>	<b>March</b>	<b>70</b>	<b>3 Hrs</b>	<b>Complete Syllabus</b>