

# SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

## LESSON-PLAN

Class: B.sc 6th sem

Semester: 6th

Subject: Biochem & Plant Biotech

Session: 2021-2022

1.	<b>Basics of Enzymology</b>
2.	<b>Discovery and Nomenclature</b>
3.	<b>Characteristics of enzymes</b>
4.	<b>Holoenzymes, Apoenzymes, coenzymes, cofactors</b>
5.	<b>Regulation of enzyme activity, Mechanism of action</b>
6.	<b>Respiration-Basics</b>
7.	<b>Aerobic Respiration, Anaerobic Respiration, Fermentation</b>
8.	<b>Aerobic Respiration</b>
9.	<b>Aerobic Respiration</b>
10.	<b>Anaerobic Respiration</b>
11.	<b>Anaerobic Respiration</b>
12.	<b>Electron Transport mechanism</b>
13.	<b>Redox- potential, oxidative photophosphorylation</b>
14.	<b>Pentose phosphate pathway</b>
15.	<b>Fat- structure and function of lipids</b>
16.	<b>Fatty acid biosynthesis</b>
17.	<b>Beta oxidation and alpha oxidation</b>

<b>18.</b>	<b>Saturated, unsaturated fatty acids</b>
<b>19.</b>	<b>Storage and mobilization of fatty acids</b>
<b>20.</b>	<b>Nitrogen metabolism</b>
<b>21.</b>	<b>Biology of Nitrogen fixation</b>
<b>22.</b>	<b>Importance of Nitrate reductase and its regulation</b>
<b>23.</b>	<b>Ammonium Assimilation</b>
<b>24.</b>	<b>Tool of Recombinant DNA technology</b>
<b>25.</b>	<b>Techniques of RDna technology</b>
<b>26.</b>	<b>Cloning vectors</b>
<b>27.</b>	<b>Genomic and cdna library</b>
<b>28.</b>	<b>Transposable elements, Aspects of plant tissue culture</b>
<b>29.</b>	<b>Cellular Totipotency</b>
<b>30.</b>	<b>Differentitaion and Morphogenesis</b>
<b>31.</b>	<b>Biology of Agrobacterium</b>
<b>32.</b>	<b>Vectors of gene delivery</b>
<b>33.</b>	<b>Marker genes</b>
<b>34.</b>	<b>Application of plant tissue culture</b>
<b>35.</b>	<b>Application of plant tissue culture</b>
<b>36.</b>	<b>Revision</b>

37.

**Revision**