

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Dr. Manju Bala Sharma

Class- B.Sc.I

Subject- Zoology

Paper- Life and Diversity from Protozoa to Porifera and Cell Biology -1

September, 2022 1 <sup>st</sup> Week 1 Sept-3 Sept	<b>Topic-</b> Phylum Protozoa <ul style="list-style-type: none"><li>• Introduction of Phylum Protozoa</li><li>• Characteristics of Protozoa</li></ul>
4 Sept, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 8 Sept- 10Sept	<b>Topic-</b> Phylum Protozoa <ul style="list-style-type: none"><li>• Classification of protozoa( Sub phylum : Sarco-mastigophora)</li><li>• Biodiversity and Economic Importance</li></ul>
11 Sept, 2022	<b>Sunday</b>
3 <sup>rd</sup> Week 15 Sept-17 Sept	<b>Topic-</b> Phylum Protozoa <ul style="list-style-type: none"><li>• Life cycle of <i>Plasmodium vivax</i>: Asexual &amp; sexual</li><li>• Protozoa in general : Parasitic protozoa(<i>Entamoeba, Trypanasoma</i>)</li></ul>
18 Sept, 2022	<b>Sunday</b>
4 <sup>th</sup> Week 22 Sept-24 Sept	<b>Topic-</b> Phylum Protozoa <ul style="list-style-type: none"><li>• Parasitic protozoa(<i>Leishmania, Giardia</i>)</li><li>• Introduction of phylum Porifera</li><li>• Characteristics of porifera</li></ul>
23 Sept,2022 25 Sept, 2022 26 Sept, 2022	<b>Shaheedi Divas/ Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Maharana Agrasen Jayanti</b>
5 <sup>th</sup> Week 29 Sept	<b>Topic-</b> Phylum Porifera <ul style="list-style-type: none"><li>• Classification of phylum porifera</li></ul>
30 Sept, 2022	<b>Talent show</b>

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Subject- Zoology

Paper- Life and Diversity from Protozoa to Porifera and Cell Biology-1

October, 2022 1 <sup>st</sup> Week 1 Oct,2022	<b>Talent Show Holiday</b>
2 Oct, 2022	<b>Sunday</b>
1 <sup>st</sup> Week 6Oct - 8Oct	<b>Topic- Phylum Porifera</b> <ul style="list-style-type: none"><li>• Classification of phylum porifera</li><li>• Canal system in Sycon</li><li>• Significance of Canal System</li></ul>
5 Oct,2022 9Oct,2022	<b>Dussehra Sunday</b>
2 <sup>nd</sup> Week 14 Oct - 15Oct	<b>Topic- Phylum Porifera</b> <ul style="list-style-type: none"><li>• Histology of Sycon</li><li>• Skeleton of Sycon</li><li>• Physiology of Sycon (nutrition)</li><li>• Reproduction in Sycon</li><li>• Embryology and metamorphosis</li></ul>
13 Oct, 2022 16Oct,2022	<b>Karwa Chauth Sunday</b>
3 <sup>rd</sup> Week 20 Oct - 21Oct	<b>Topic- Plasma Membrane</b> <ul style="list-style-type: none"><li>• Plasma Membrane: Definition,Structural models of plasma membrane</li><li>• Modification of Plasma membrane</li><li>• Properties of plasma membrane(Active and passive)</li></ul>
22 Oct - 26 Oct	<b>Diwali Break</b>
4 <sup>th</sup> Week 27 Oct - 29 Oct	<b>Topic – Cell organelle</b> <ul style="list-style-type: none"><li>• Endoplasmic Reticulum (Discovery, definition and occurrence )</li><li>• Study of Lysosomes (Discovery, Definition and ultrastructure ) Polymorphism in lysosomes</li></ul>
30 Oct, 2022	<b>Sunday</b>

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Class- B.Sc.I

Subject- Zoology

Paper- Life and Diversity from Protozoa to Porifera and Cell Biology 1

November, 2022 1 <sup>st</sup> Week 1 Nov, 2022	Haryana Day
1 <sup>st</sup> Week 3 Nov - 5 Nov	<b>Topic – Cell organelle</b> <ul style="list-style-type: none"><li>• Biogenesis and function of Lysosomes</li><li>• Study of Mitochondria (Discovery, Definition and Ultrastructure ) Mitochondria :Function, Biogenesis</li></ul>
6 Nov, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 10 Nov – 12 Nov	<b>Topic – Cell organelle</b> <ul style="list-style-type: none"><li>• Microfilaments: Discovery, Definition,Ultrastructure and function</li></ul>
8 Nov,2022 13 Nov, 2022	<b>Sh. Guru Nanak Dev jayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 17 Nov - 19 Nov	<ul style="list-style-type: none"><li>• Microtubules : Discovery, Definition,Ultrastructure ,function</li><li>• Cilia : Discovery, Definition, Ultrastructure and function</li><li>•</li></ul>
20 Nov, 2022	<b>Sunday</b>
4 <sup>th</sup> Week 24 Nov - 26 Nov	<ul style="list-style-type: none"><li>• Flagella : Discovery, Definition, Ultrastructure and function</li></ul>
27 Nov, 2022	<b>Sunday</b>
5 <sup>th</sup> Week 28 Nov – 3 Dec	<b>Sessional Exams</b>
4 Dec, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 5 Dec - 10 Dec	revision
3 <sup>rd</sup> Week 15 Dec,2022 Onwards	<b>University Examination</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher -- Dr. Manju Bala Sharma

Class- B.Sc.III

Subject- Evolution and Development Biology

Paper- II

4 Sept, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 5Sept- 7 Sept	<ul style="list-style-type: none"><li>• <b>Topics: Origin of life – II</b></li><li>• Origin of Universe</li><li>• Organic compounds, Coacervates ,Biomolecules</li><li>• Prokaryotes cells</li><li>• Oxygen Revolution</li><li>• Eukaryotes cells</li></ul>
11 Sept, 2022	<b>Sunday</b>
3 <sup>rd</sup> Week 12 Sept-14 Sept	<ul style="list-style-type: none"><li>• <b>Topic : Organic Evolution –I</b></li><li>• Historical Aspects of Evolution</li><li>• Evidences of Organic Evolution</li><li>• Morphological and Anatomical Evidences</li><li>• Embryological Evidences</li></ul>
18 Sept, 2022	<b>Sunday</b>
4 <sup>th</sup> Week 19 Sept-21Sept	<ul style="list-style-type: none"><li>• <b>Topic : Organic Evolution –I</b></li><li>• Palaeontological Evidences</li><li>• Biochemical or Physiological Evidences</li><li>• Biogeographical Evidences</li><li>• Cytological Evidences</li></ul>
23 Sept,2022 25 Sept, 2022 26 Sept, 2022	<b>Shaheedi Divas/ Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Maharana Agrasen Jayanti</b>
5 <sup>th</sup> Week 25 Sept - 27 Sept	<ul style="list-style-type: none"><li>• <b>Topic : Organic Evolution –I</b></li><li>• Palaeontological Evidences</li><li>• Biochemical or Physiological Evidences</li><li>• Biogeographical Evidences</li><li>• Cytological Evidences</li></ul>
30 Sept, 2022	<b>Talent show</b>

## KVA DAV College for Women, Karnal

### Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Dr. Manju Bala Sharma

Class- B.Sc.III

Subject- Evolution and Development Biology

Paper- II

October, 2022 1 <sup>st</sup> Week 1 Oct,2022	<b>Talent Show Holiday</b>
2 Oct, 2022	<b>Sunday</b>
1 <sup>st</sup> Week 3 Oct - 5 Oct	<ul style="list-style-type: none"><li>• Topic: theory of evolution</li><li>• Lamarckism</li><li>• Darwinism</li></ul>
5 Oct,2022 9 Oct,2022	<b>Dussehra</b> <b>Sunday</b>
2 <sup>nd</sup> Week 10 Oct - 12 Oct	<ul style="list-style-type: none"><li>• Mutation theory of Evolution</li><li>• <b>Types of Evolution</b></li><li>• Micro Evolution</li></ul>
13 Oct, 2022 16 Oct,2022	<b>Karwa Chauth</b> <b>Sunday</b>
3 <sup>rd</sup> Week 17 Oct - 19 Oct	<ul style="list-style-type: none"><li>• MacroEvolution</li><li>• Mega-Evolution</li><li>• <b>Topics: Developmental Biology</b></li><li>• Historical Background of Developmental Biology</li></ul>
22 Oct - 26 Oct	<b>Diwali Break</b>
4 <sup>th</sup> Week 31 Oct	<ul style="list-style-type: none"><li>• Gametogenesis</li><li>• Spermatogenesis</li><li>• Oogenesis</li></ul>
	<ul style="list-style-type: none"><li>• Fertilization</li><li>• Parthenogenesis</li></ul>

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### Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Dr. Manju Bala Sharma

Class- B.Sc.III

Subject- Evolution and Development Biology

Paper- II

November, 2022 1 <sup>st</sup> Week 1 Nov, 2022	<b>Haryana Day</b>
1 <sup>st</sup> Week 2 Nov	<ul style="list-style-type: none"><li>• Cleavage (continued...)</li><li>• Blastulation(continued..)</li></ul>
6 Nov, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 7 Nov	<ul style="list-style-type: none"><li>• Cleavage</li><li>• Blastulation</li></ul>
8 Nov,2022 9nov 13 Nov, 2022	<b>Sh. Guru Nanak Dev jayanti Election Sunday</b>
3 <sup>rd</sup> Week 14 Nov - 16Nov	<ul style="list-style-type: none"><li>• Development of Chick – Blastulation</li><li>• Gastrulation</li></ul>
20 Nov, 2022	<b>Sunday</b>
4 <sup>th</sup> Week 21 Nov - 23 Nov	<ul style="list-style-type: none"><li>• Embryonic Induction (Primary Organizers)</li><li>• Extra-embryonic Membranes</li></ul>
27 Nov, 2022	<b>Sunday</b>
5 <sup>th</sup> Week 28 Nov – 3 Dec	<b>Sessional Exams</b>
4 Dec, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 5 Dec - 7Dec	<ul style="list-style-type: none"><li>• Competence</li><li>• Determination and Differentiation</li><li>• Repair and regeneration</li><li>• Revision</li></ul>
3 <sup>rd</sup> Week 15 Dec,2022 Onwards	<b>University Examination</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. pargati

Class- B.Sc.I

Subject- Life and Diversity from Coelenterate to Aschehelminthe & Cell Biology

Paper- 1

1 <sup>st</sup> Week 4 Sept, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 5Sept- 7 Sept	<ul style="list-style-type: none"><li>• Introduction of Phylum Coelenterata</li><li>• Characteristics of Coelentrata</li><li>• Classification of Coelentrata ( Class :Hydrasoa &amp; Scyphozoa ) (Class: Anthozoa )</li></ul>
11 Sept, 2022	<b>Sunday</b>
3 <sup>rd</sup> Week 12 Sept-14 Sept	<ul style="list-style-type: none"><li>• Biodiversity and Economic Importance</li><li>• External anatomy of <i>Obelia</i></li><li>• Polymorphism of <i>Obelia</i></li></ul>
18 Sept, 2022	<b>Sunday</b>
4 <sup>th</sup> Week 19 Sept-21Sept	<ul style="list-style-type: none"><li>• Study of Polyps</li><li>• Study of Medusae</li></ul>
23 Sept,2022 25 Sept, 2022 26 Sept, 2022	<b>Shaheedi Divas/ Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Maharana Agrasen Jayanti</b>
5 <sup>th</sup> Week 25 Sept - 27 Sept	<ul style="list-style-type: none"><li>• Physiology of <i>Obelia</i> Colony</li><li>• Polymorphism in General</li><li>• Coral reefs</li><li>• Economic importance of coelentrata</li></ul>
30 Sept, 2022	<b>Talent show</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Pragati

Class- B.Sc.I

Subject- Life and Diversity from Coelenterate to Aschehelminthe & Cell Biology

Paper- 2

October, 2022 1 <sup>st</sup> Week 1 Oct,2022	<b>Talent Show Holiday</b>
2 Oct, 2022	<b>Sunday</b>
1 <sup>st</sup> Week 3 Oct - 5 Oct	<ul style="list-style-type: none"><li>• <b>Topics: Phylum Platyhelminthes</b></li><li>• Introduction of Phylum Platyhelminthes, Characteristics of Platyhelminthes</li></ul>
5 Oct,2022 9 Oct,2022	<b>Dussehra Sunday</b>
2 <sup>nd</sup> Week 10 Oct - 12 Oct	<ul style="list-style-type: none"><li>• Introduction of Phylum Platyhelminthes, Characteristics of Platyhelminthes</li><li>• Classification of Platyhelminthes ( Class : Turbellaria&amp; Trematoda )</li></ul>
13 Oct, 2022 16 Oct,2022	<b>Karwa Chauth Sunday</b>
3 <sup>rd</sup> Week 17 Oct - 19 Oct	<ul style="list-style-type: none"><li>• Classification of Platyhelminthes ( Class : Cestoda )</li><li>• Biodiversity and Economic Importance</li></ul>
22 Oct - 26 Oct	<b>Diwali Break</b>
4 <sup>th</sup> Week 31 Oct	<ul style="list-style-type: none"><li>• External anatomy of <i>Fasciola Hepatica</i>-</li><li>• Digestive system</li><li>• Respiratory system &amp; Excretory system</li></ul>



# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms.Pragati

Class- B.Sc. I

Subject- Life and Diversity from Coelenterate to Aschehelminthe & Cell Biology

Paper- 2

November, 2022 1 <sup>st</sup> Week 1 Nov, 2022	Haryana Day
1 <sup>st</sup> Week 2 Nov	<ul style="list-style-type: none"> <li>Nervous system of <i>Fasciola Hepatica</i></li> <li>Reproductive system</li> <li>Development and Life History (Larval stages)</li> </ul>
6 Nov, 2022	Sunday
2 <sup>nd</sup> Week 7 Nov	<ul style="list-style-type: none"> <li>Parasitic Adaptations &amp; economic importance</li> <li>Introduction of Phylum Aschelminthes</li> </ul>
8 Nov,2022 9nov, 2022 13 Nov, 2022	Sh. Guru Nanak Dev jayanti Election Sunday
3 <sup>rd</sup> Week 14 Nov - 16Nov	<ul style="list-style-type: none"> <li>Topics: Phylum Aschelminthes</li> <li>Characteristics of Aschelminthes</li> <li>Introduction of Phylum Aschelminthes</li> </ul>
20 Nov, 2022	Sunday
4 <sup>th</sup> Week 21 Nov - 23 Nov	<ul style="list-style-type: none"> <li>Characteristics of Aschelminthes</li> <li>Classification of Aschelminthes (Sub-class: Aphasmidia &amp; Phasmidia)</li> </ul>
27 Nov, 2022	Sunday
5 <sup>th</sup> Week 28 Nov – 3 Dec	Sessional Exams
4 Dec, 2022	Sunday
2 <sup>nd</sup> Week 5 Dec - 7Dec	<ul style="list-style-type: none"> <li>Topics: CELL BIOLOGY</li> <li>Study of Nucleus (Types, occurrence, structures and function)</li> <li>Study of Nucleolus &amp; Nucleoplasm (ultrastructure and functions)</li> <li>Chromosomes: Introduction &amp; Chromosome cycle</li> </ul>
	<ul style="list-style-type: none"> <li>Polytene chromosome,</li> <li>Lampbrush Chromosomes, Cell reproduction: Mitosis</li> </ul>
3 <sup>rd</sup> Week 15 Dec-17 Dec.	<ul style="list-style-type: none"> <li>Cell reproduction: Meiosis-I</li> <li>Cell reproduction: Meiosis-II</li> </ul>
	<ul style="list-style-type: none"> <li>Cancer Biology: Definition, characteristics, types of cancers &amp; therapy</li> </ul>
	<ul style="list-style-type: none"> <li>Cellular basis of Immunity: Antigen, Antibodies,</li> <li>Inflammatory response &amp; types of immune system</li> </ul>
	University Examination

## KVA DAV College for Women, Karnal

### Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms Pargati

Class- B.Sc.III

Subject- Evolution and Development Biology

Paper- II

4 Sept, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 5Sept- 7 Sept	<ul style="list-style-type: none"><li>• Introduction of ecology and Level of Organization</li><li>• Environment: Abiotic Factors (continued...)</li></ul>
11 Sept, 2022	<b>Sunday</b>
3 <sup>rd</sup> Week 12 Sept-14 Sept	<ul style="list-style-type: none"><li>• Environment: Abiotic Factors</li><li>• Environment: Biotic Factors</li></ul>
18 Sept, 2022	<b>Sunday</b>
4 <sup>th</sup> Week 19 Sept-21Sept	<ul style="list-style-type: none"><li>• Introduction, Definition and kinds of ecosystem</li><li>• Component of Ecosystem and example of Ecosystem</li><li>• Example of Ecosystem(continued...)</li></ul>
23 Sept,2022 25 Sept, 2022 26 Sept, 2022	<b>Shaheedi Divas/ Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Maharana Agrasen Jayanti</b>
5 <sup>th</sup> Week 25 Sept - 27 Sept	<ul style="list-style-type: none"><li>• Trophic level, Food chain and food web</li><li>• Energy flow in an Ecosystem</li></ul>
30 Sept, 2022	<b>Talent show</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms.Pragati

Class- B.Sc.III

Subject- Environmental Biology

Paper- II

October, 2022 1 <sup>st</sup> Week 1 Oct,2022	<b>Talent Show Holiday</b>
2 Oct, 2022	<b>Sunday</b>
1 <sup>st</sup> Week 3 Oct - 5 Oct	<b>Environmental Biology</b> <ul style="list-style-type: none"><li>• Productivity</li><li>• Introduction and types of biomes</li><li>• Terrestrial Biomes Aquatic Biomes</li></ul>
5 Oct,2022 9 Oct,2022	<b>Dussehra</b> <b>Sunday</b>
2 <sup>nd</sup> Week 10 Oct - 12 Oct	<ul style="list-style-type: none"><li>• Productivity</li><li>• Introduction and types of biomes</li><li>• Terrestrial Biomes Aquatic Biomes</li><li>• Introduction and definitions and types of gaseous cycle</li><li>• Types of gaseous cycle(Nitrogen cycle)</li></ul>
13 Oct, 2022 16 Oct,2022	<b>Karwa Chauth</b> <b>Sunday</b>
3 <sup>rd</sup> Week 17 Oct - 19 Oct	<ul style="list-style-type: none"><li>• Types of Biochemical Cycles(Sedimentary Cycle)</li><li>• Characteristics of population</li><li>• Regulation of population</li></ul>
22 Oct - 26 Oct	<b>Diwali Break</b>
4 <sup>th</sup> Week 31 Oct	<ul style="list-style-type: none"><li>• Factors determining Growth rate of population</li><li>• Methods to control overpopulation</li><li>• Introduction and levels of biodiversity</li></ul>

## KVA DAV College for Women, Karnal

### Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Pragati

Class- B.Sc.III

Subject- Environmental Biology

Paper- II

November, 2022 1 <sup>st</sup> Week 1 Nov, 2022	Haryana Day
1 <sup>st</sup> Week 2 Nov	<ul style="list-style-type: none"><li>• The IUCN Red List threat categories</li><li>• Biodiversity conservation</li><li>• In situ conservation and ex situ conservation</li></ul>
6 Nov, 2022	Sunday
2 <sup>nd</sup> Week 7 Nov	<ul style="list-style-type: none"><li>• Study of natural resources(renewable)</li><li>• Study of classes of natural resources(non-renewable)</li><li>• Conservation and management methods</li></ul>
8 Nov,2022 9nov 13 Nov, 2022	Sh. Guru Nanak Dev jayanti Election Sunday
3 <sup>rd</sup> Week 14 Nov - 16Nov	<ul style="list-style-type: none"><li>• Migration in fishes</li><li>• Types of migration</li><li>• Reasons of migration</li></ul>
20 Nov, 2022	Sunday
4 <sup>th</sup> Week 21 Nov - 23 Nov	Migration in birds <ul style="list-style-type: none"><li>• Guiding mechanism in bird navigation</li><li>• Parental care in fishes and reptiles</li><li>• Parental care in birds and mammals</li></ul>
27 Nov, 2022	Sunday
5 <sup>th</sup> Week 28 Nov – 3 Dec	Sessional Exams
4 Dec, 2022	Sunday

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## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Pragati

Class- B.Sc.III

Subject- Environmental Biology

Paper- II

<b>2<sup>nd</sup> Week</b> <b>5 Dec - 7Dec</b>	<ul style="list-style-type: none"><li>• Parental care in birds and mammals</li><li>• Definition, introduction of biotic community</li><li>• Characteristics of biotic community</li><li>• Characteristics of biotic community (continued...)</li></ul>
	<ul style="list-style-type: none"><li>• Interspecific Interaction and Intraspecific Interaction</li><li>• Ecological succession</li><li>• Ecological succession (continued...)</li></ul>
<b>3<sup>rd</sup> Week</b> <b>15 Dec,2022</b> <b>Onwards</b>	<ul style="list-style-type: none"><li>• Introduction , definition and types of pollutants</li><li>• Air pollution and its control</li><li>• Water pollution and its control Soil pollution and its control</li></ul>
	<ul style="list-style-type: none"><li>• Radioactive pollution and its management</li><li>• Noise pollution and its ill effects</li></ul>
	<b>Revision</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Jyoti

Class- B.Sc.II

Subject- Life and Diversity of Chordates-1

Paper- 1

4 Sept, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 5Sept- 7 Sept	<ul style="list-style-type: none"><li>• <b>Topics: Phylum Chordata</b></li><li>• Introduction of Phylum Chordata</li><li>• Origin and Evolutionary tree</li><li>• Characteristics of Chordata</li></ul>
11 Sept, 2022	<b>Sunday</b>
3 <sup>rd</sup> Week 12 Sept-14 Sept	<ul style="list-style-type: none"><li>• Classification of Chordata</li><li>• <b>Topics: Phylum Urochordata</b></li><li>• Characteristics, Classification and affinities</li></ul>
18 Sept, 2022	<b>Sunday</b>
4 <sup>th</sup> Week 19 Sept-21Sept	<ul style="list-style-type: none"><li>• <b>Topics: Phylum Urochordata</b></li><li>• Type study of Herdmania: External features, Digestive System</li><li>• Type study of Herdmania: Circulatory System and Respiratory system</li></ul>
23 Sept,2022 25 Sept, 2022 26 Sept, 2022	<b>Shaheedi Divas/ Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Maharana Agrasen Jayanti</b>
5 <sup>th</sup> Week 25 Sept - 27 Sept	<ul style="list-style-type: none"><li>• <b>Topics: Phylum Urochordata</b></li><li>• Type study of Herdmania: Excretory system and Sense organs,</li><li>• Reproductive system</li></ul>
30 Sept, 2022	<b>Talent show</b>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Jyoti

Class- B.Sc.II

Subject- Life and Diversity of Chordates-1

Paper- I

October, 2022 1 <sup>st</sup> Week 1 Oct,2022	<b>Talent Show Holiday</b>
2 Oct, 2022	<b>Sunday</b>
1 <sup>st</sup> Week 3 Oct - 5 Oct	<ul style="list-style-type: none"><li>• <b>Topics: Phylum Cephalochordata</b></li><li>• Introduction of Phylum Cephalochordata: Characteristics ,Classification and Affinities</li><li>• Type study of Amphioxus: External features</li></ul>
5 Oct,2022 9 Oct,2022	<b>Dussehra Sunday</b>
2 <sup>nd</sup> Week 10 Oct - 12 Oct	<ul style="list-style-type: none"><li>• <b>Topics: Phylum Cephalochordata</b></li><li>• Type study of Amphioxus: Digestive System</li><li>• Type study of Amphioxus : Circulatory system and respiratory system</li><li>• Type study of Amphioxus : Excretory system and sense organs</li></ul>
13 Oct, 2022 16 Oct,2022	<b>Karwa Chauth Sunday</b>
3 <sup>rd</sup> Week 17 Oct - 19 Oct	<ul style="list-style-type: none"><li>• <b>Topics: Class- Cyclostomata</b></li><li>• Introduction of class Cyclostomata: Characteristics</li><li>• class Cyclostomata - Classification and Affinities</li><li>• Type study of Petromyzon: External Features</li></ul>
22 Oct - 26 Oct	<b>Diwali Break</b>
4 <sup>th</sup> Week 31 Oct, 2022	<ul style="list-style-type: none"><li>• Type study of Petromyzon: Digestive system</li></ul>

# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Jyoti

Class- B.Sc.II

Subject- Life and Diversity of Chordates-1

Paper- I

November, 2022 1 <sup>st</sup> Week 1 Nov, 2022	Haryana Day
1 <sup>st</sup> Week 2 Nov	<ul style="list-style-type: none"><li>Type study of Petromyzon: Circulatory System and Respiratory System</li><li>Type study of Petromyzon: Nervous System</li></ul>
6 Nov, 2022	Sunday
2 <sup>nd</sup> Week 7 Nov	<ul style="list-style-type: none"><li>Type study of Petromyzon: Lateral line and Reproductive System and Ammocoetus Larva</li><li>Type study of Petromyzon: Sense organ –Ear, Eye and Olfactory organs</li></ul>
8 Nov, 2022 9 Nov 13 Nov, 2022	Sh. Guru Nanak Dev jayanti Election Sunday
3 <sup>rd</sup> Week 14 Nov - 16 Nov	<ul style="list-style-type: none"><li>Topics: Class: Pisces</li><li>Introduction of class Pisces: Characteristics Classification and Affinities</li><li>Scales in Fishes, Parental Care in Fishes, Migration in Fishes</li></ul>
20 Nov, 2022	Sunday
4 <sup>th</sup> Week 21 Nov - 23 Nov	<ul style="list-style-type: none"><li>Topics: Class: Pisces</li><li>Type Study of Labeo Rohita External Features and Digestive System</li><li>Type Study of Labeo Rohita: Respiratory System</li></ul>
27 Nov, 2022	Sunday
5 <sup>th</sup> Week 28 Nov – 3 Dec	Sessional Exam
4 Dec, 2022	Sunday
2 <sup>nd</sup> Week 5 Dec - 7 Dec	<ul style="list-style-type: none"><li>Type Study of Labeo Rohita: Blood vascular System, Nervous System, Sense organs, Excretory System and Reproductive System</li></ul>
3 <sup>rd</sup> Week 15 Dec, 2022 Onwards	University Examination



# KVA DAV College for Women, Karnal

## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Jyoti  
Class- B.Sc.II. Medical  
Subject- Mammalian Physiology -1  
Paper- 2

September, 2022 1 <sup>st</sup> Week 1 Sept-3 Sept	<ul style="list-style-type: none"><li>• <b>Topics: Biochemistry</b></li><li>• Introduction and scope</li><li>• Proteins: Introduction, definition and Classification</li><li>• Proteins: functions</li></ul>
4 Sept, 2022	<b>Sunday</b>
2 <sup>nd</sup> Week 8 Sept- 10 Sept	<ul style="list-style-type: none"><li>• <b>Topics: Carbohydrates</b></li><li>• Introduction, Definition and Classification</li><li>• Structure of Carbohydrates</li><li>• Functions of Carbohydrates</li></ul>
11 Sept, 2022	<b>Sunday</b>
3 <sup>rd</sup> Week 15 Sept-17 Sept	<ul style="list-style-type: none"><li>• <b>Topics: Lipids</b></li><li>• Introduction, definition and Classification</li><li>• Structure of Lipid</li><li>• Function of Lipids</li></ul>
18 Sept, 2022	<b>Sunday</b>
4 <sup>th</sup> Week 22 Sept-24 Sept	<ul style="list-style-type: none"><li>• <b>Topics: Enzymes</b></li><li>• Introduction, definition and Classification</li><li>• Properties of enzyme</li><li>• Regulation of Enzymatic activity</li></ul>
23 Sept, 2022 25 Sept, 2022 26 Sept, 2022	<b>Shaheedi Divas/ Haryana War Heroes' Martyrdom Day</b> <b>Sunday</b> <b>Maharana Agrasen Jayanti</b>
5 <sup>th</sup> Week 28 Sept - 29 Sept	<ul style="list-style-type: none"><li>• <b>Topics: Biophysics</b></li><li>• Buffer system</li><li>• Biomembranes</li></ul>
30 Sept, 2022	<b>Talent show</b>

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## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Jyoti

Class- B.Sc.II

Subject- Mammalian Physiology -1

Paper- II

October, 2022 1 <sup>st</sup> Week 1 Oct,2022	<b>Talent Show Holiday</b>
2 Oct, 2022	<b>Sunday</b>
1 <sup>st</sup> Week 6 Oct - 8 Oct	<ul style="list-style-type: none"><li>• <b>Topics: Biophysics</b></li><li>• <b>Active transport</b></li><li>• <b>Passive transport</b></li><li>• <b>Endocytosis</b></li><li>• <b>exocytosis</b></li></ul>
5 Oct,2022 9 Oct,2022	<b>Dussehra Sunday</b>
2 <sup>nd</sup> Week 13Oct - 15 Oct	<ul style="list-style-type: none"><li>• <b>Topics: Nutrition</b></li><li>• Types of nutrition mechanism</li><li>• Types of digestion</li><li>• Types of Feeding mechanism</li></ul>
13 Oct, 2022 16 Oct,2022	<b>Karwa Chauth Sunday</b>
3 <sup>rd</sup> Week 20Oct - 21 Oct	<ul style="list-style-type: none"><li>• <b>Topic: Nutrition</b></li><li>• Digestion of Carbohydrates</li><li>• Lactose intolerance</li></ul>
22 Oct - 26 Oct	<b>Diwali Break</b>
4 <sup>th</sup> Week 27 Oct - 29 Oct	<ul style="list-style-type: none"><li>• <b>Topic: Nutrition</b></li><li>• Digestion of Protein</li><li>• Digestion of Fat</li><li>• Absorption of nutrients: physio-chemical mechanism</li></ul>
30 Oct, 2022	<b>Sunday</b>

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## Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Jyoti  
Class-B.Sc.II  
Subject- Mammalian Physiology -1  
Paper- II

November, 2022 1 <sup>st</sup> Week 1 Nov, 2022	Haryana Day
1 <sup>st</sup> Week 3Nov - 4Nov	<ul style="list-style-type: none"><li>• Absorption of nutrients: physio-chemical mechanism</li><li>• Absorption of Carbohydrates</li><li>• Absorption of Amino acids</li></ul>
5Nov.2022 6 Nov, 2022	<b>CET Exam</b> <b>Sunday</b>
2 <sup>nd</sup> Week 10 Nov – 11 Nov	<ul style="list-style-type: none"><li>• <b>Topic: Nutrition</b></li><li>• Absorption of Fats</li><li>• Absorption of cholesterol</li><li>• Assimilation, Hormonal control in digestion</li></ul>
8 Nov,2022 12 nov 13 Nov, 2022	<b>Sh. Guru Nanak Dev jayanti</b> <b>Election</b> <b>Sunday</b>
3 <sup>rd</sup> Week 17 Nov - 18 Nov 19 Nov.2022	<ul style="list-style-type: none"><li>• <b>Topic: Muscle Physiology</b></li><li>• Introduction definition</li><li>• Types of Muscle ,</li><li>• Ultrastructure of myofibrillar filaments</li><li>• Characteristics of Muscles</li><li>• Types of Muscle fibres</li></ul>
20 Nov, 2022	<b>Sunday</b>
4 <sup>th</sup> Week 24 Nov - 26 Nov	<ul style="list-style-type: none"><li>• Neuro- Muscular Junction</li><li>• Physical changes in Muscle contraction</li><li>• Chemical changes in Muscle contraction</li><li>• Oxygen debt and Cori's cycle</li></ul>
27 Nov, 2022	<b>Sunday</b>
5 <sup>th</sup> Week 28 Nov – 3 Dec	<b>Sessional Exams</b>
4 Dec, 2022	<b>Sunday</b>

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Name of the Teacher – Ms. Jyoti  
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Paper- II

<b>2<sup>nd</sup> Week</b> <b>8 Dec - 10 Dec</b>	<ul style="list-style-type: none"><li>• <b>Topic: Bone and Bone disorders</b></li><li>• Structure and types of bones</li><li>• Effect of ageing on Skeleton</li><li>• Bone Growth and Resorption</li><li>• Bone disorders</li></ul>
<b>3rd Week</b> <b>15 Dec,2022</b> <b>Onwards</b>	<b>University Examination</b>