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## Lesson Plan 2021-22 Even semester

Class: B.Sc. (Med.) 6th Semester (Theory)

Subject lesson plan: From April 2022 to June 2022
Teachers: Dr. Santosh Hooda, Mrs. Manju Chhikara

Week & Date	Topics
Week 1	
April 01-08	Study of insect pests of crops and vegetables.
Week 2	y sacret peaks of crops and vegetatores.
April 09-15	Pest of Sugarcane, Pest of Cotton, Pest of Wheat
Week 3	
April 16-22	Pest of Paddy, Pest of Vegetables, Pest of Stored grains
Week 4	grams
April 23-30	Insect control: Biological control, its history, requirement and precautions and feasibility of biological agents for control.
Week 5	
May 01-10	Chemical control: History, Categories of pesticides. Important pesticides from each category to pests against which they can be used. Insect repellants and attractants.
Week 6	
May 11-20	Integrated pest management, Important bird and rodent pests of agriculture & their management.
Week 7	
May 21- 4 June	Historical perspectives, aims and scope of developmental biology. Generalized structure of mammalian ovum & sperm. Spermatogenesis and Oogenesis
Week 8	
June 06-11	Fertilization, parthenogenesis, different types of eggs and patterns of cleavage in invertebrates and vertebrates. Process of blastulation in invertebrates and vertebrates, Fate-map construction in frog and chick.
Week 9	
June 13-18	Gastrulation in invertebrates and vertebrates. Gastrulation & formation of three germinal layers in frog and chick Elementary knowledge of primary organizers
Week 10	
une 20-25	Extra embryonic membranes: structure & significance in birds and mammals. Concepts of competence, determination and differentiation. Concept of regeneration
Week 11	
une 27-30	Revision

Texts are scheduled after empletion of units.

<u>29/3/2022</u> <u>Zoology</u> Dept Name o

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Lesson Plan 2021-22 Even semester

Class: B.Sc. (Med.) 4th Semester (Theory)

Subject lesson plan: From April 2022 to June 2022

Teachers: Dr. Seema Jain (H.O.D), Mrs. Madhuri Kaushik, Mrs Babli Rathee

	Topics
Week 1	
April 01-08	Amphibia: Origin, Evolutionary tree. Type study of frog (Rana tigrina), Parental Care in Amphibia
Week 2	
April 09-15	Reptilia: Type study of Lizard (Hemidactylus), Origin, Evolutionary tree. Extinct reptiles; Poisonous and non-poisonous snakes; Poison apparatus in snakes
Week 3	
April 16-22	Aves: Type study of Pigeon (Columba livia); Flight adaptation, Principles of aerodynamics in Bird flight, migration in birds.
Week 4	
April 23-30	Mammals: Classification, type study of Rat; Adaptive radiations of mammals and dentition.
Week 5	
May 01-10	Circulation: Origin, conduction and regulation of heart beat, cardiac cycle, electrocardiogram, cardiac output, fluid pressure and flow pressure in closed and open circulatory system; Composition and functions of blood & lymph; Mechanism of coagulation of blood, coagulation factors; anticoagulants, haempoiesis
Week 6	
May 11-20	Respiration: Exchange of respiratory gases, transport of gases, lung air volumes, oxygen dissociation curve of hemoglobin, Bohr's effect, Hamburger's phenomenon (Chloride shift), control / regulation of respiration.
Week 7	
May 21- 4 June	Excretion: Patterns of excretory products viz. Amonotelic, ureotlic uricotelic, ornithine cycle (Kreb's— Henseleit cycle) for urea formation in liver. Excretion: Urine formation, counter-current mechanism of urine concentration, osmoregulation, micturition
Week 8	
Tune 06-11	Neural Integration: Nature, origin and propagation of nerve impulse along with medullated & non-medullated nerve fibre, conduction of nerve impulse across synapse.
Veek 9	
June 13-18	Chemical integration of Endocrinology: Structure and mechanism of hormone action Physiology of hypothalamus, pituitary, thyroid, parathyroid, adrenal, pancreas and gonads. Reproduction: Spermatogenesis.
Veek 10	
Checked at the Control of the Contro	Capacitation of spermatozoa, ovulation, formation of corpus luteum, Oestrous-anoestrou
ine 20-25	cycle, Menstrual cycle in human; fertilization, implantation and gestation.
	cycle, Menstrual cycle in human; fertilization, implantation and gestation.
eek 11	cycle, Menstrual cycle in human; fertilization, implantation and gestation.  Revision

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## Lesson Plan 2021-22 Even Semester

Class: B.Sc. (Med.) 2nd Semester (Theory)

Subject lesson plan: From April 2022 to June 2022

Teachers: Mrs Mamta Khokhar, Dr. Radha Rathee, Mrs Anu Bhargava

	Topics
Week & Date	Di l'arreity and economic
Week 1	Phylum - Annelida: General characters and classification, Biodiversity and economic  Phylum - Annelida: General characters and classification, Biodiversity and economic  Phylum - Annelida: Pheretima, Metamerism, Trochophore larva: Affinities,
	Phylum - Annelida: General characters and classification, Biodiversity and importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, Importance, Type study - Pheretima, Metamerism, Trochophore larva: Affinities, Importance, Type study - Pheretima, Metamerism, Type study - Pheretima, Metameri
	evolutionary significance
	evolutionary organization Biodiversity and
Week 2	Phylum – Arthropoda : General characters and classification , Biodiversity and  Type study – Periplaneta
April 09-15	importance, Type study
	economic mportant, production Riodiversity and economic
Week 3	Phylum - Mollusca: General characters and classification, Biodiversity and economic  Three study - Pila Torsion and detorsion in gastropoda.
April 16-22	· autonce IVDE SHILLY - I Ha, I
Week 4	Political Property of the Political Property
April 23-30	Phylum - Echinodermatary - Asteries (Sea Star), Echinoderm tarvasy
	Phylum - Echinodermata: General characters and classification, Biodiversity and economic importance, Type Study -Asteries (Sea Star), Echinoderm larvae, Aristotle's
	Lantern
Week 5	Phylum – Hemichordata: Type study: Balanoglossus
May 01-10	Phylum – Hemichordata: Type study: Balanoglossus  Elements of Heredity and variations, The varieties of gene interactions, Linkage and Elements of Heredity and repulsion hypothesis, crossing-over and chiasma
Tuj or	Elements of Heredity and variations, The varieties of gene intractions, and the varieties of gene intractions and the varieties of gene intract
	recombination: Coupling and 14
	formation; gene mapping
	1.6 rele heterozygous systems, general
Week 6	Sex determination and its mechanism: male and female nectory gets below the system; role of Y -chromosome, male haploidy, cytoplasmic and balance system; role of hormones in sex determination.
May 11-20	Sex determination of Y -chromosome, male naploidy, cytopias
	balance system, for or role of hormones in sex determination.
	balance system; role of Y -chromosome, mate maps balance system; role of hormones in sex determination.
Week 7	Sex linked inheritance: Haemophilia and colour blindness in man, eye colour in Sex linked inheritance: Haemophilia and colour blindness in man, eye colour in Sex linked inheritance: i) Kappa
May 21-4 June	Sex linked inheritance: Haemophilia and colour blindness in man, eye colour  Sex linked inheritance: Haemophilia and colour blindness in man, eye colour  Sex linked inheritance: Haemophilia and colour blindness in man, eye colour  Drosophila, Nondisjunction of sex-chromosome in Drosophila; Sex-linked and sex  Drosophila, Nondisjunction of sex-chromosomal and cytoplasmic inheritance: i) Kappa
May 21- 4 June	
	Drosophila, Nondisjunction of sex-chromosome in Drosophila; Sex-linked and Drosophila, Nondisjunction of sex-chromosomal and cytoplasmic inheritance: i) Kappa influenced inheritance. Extra chromosomal and cytoplasmic inheritance: ii) Shell coiling in snails. iii) Milk factor in mice
	Multiple allelism: Eye colour in Drosophila; A, B, 0 blood group in man. Human  Multiple allelism: Eye colour in Drosophila; A, B, 0 blood group in man. Human  Multiple allelism: Eye colour in Drosophila; A, B, 0 blood group in man. Human
Week 8	Multiple allelism: Eye colour in Drosophila; A, B, 0 blood group in man. Human genetics: Human karyotype, Chromosomal abnormalities involving autosomes and segmentics: Human karyotype, and dizygotic twins. Inborn errors of metabolism.
June 06-11	Multiple allelish. Lyotope Chromosomal abnormalities hivorying activities of metabolism.
	genetics: Human Karyotype, one dizygotic twins. Inborn errors of metaconsm
	Multiple allelism. Eye colod genetics: Human karyotype, Chromosomal abnormalities involving autosome genetics: Human karyotype, Chromosome genetics: Human karyotype, Human karyotype,
	Nature and function of genetic material; Structure and type of nucleic acids; Protein  Nature and function of genetic material; Structure and type of nucleic acids; Protein  Nature and function of genetic material; Structure and type of nucleic acids; Protein  Nature and function of genetic material; Structure and type of nucleic acids; Protein  Nature and function of genetic material; Structure and type of nucleic acids; Protein
Week 9	Nature and function of genetic material; Structure and type of nucleic acids, Transition and function of genetic material; Structure and type of nucleic acids, Transition, Transitions; Gene synthesis. spontaneous and induced (chemical and radiations) mutations; Gene synthesis. spontaneous and induced (chemical and radiations) mutations; Gene synthesis.
June 13-18	Nature and function of and induced (chemical and fadiations) astructural
June 13 10	synthesis. spontaneous disconstructions: transition, transversion, sadd
	synthesis. spontaneous and induced (chemical and radiations) material synthesis.
	mutations; chemical basis of inductions, chromosomal aberrations; numerical aberrations.
	Applied genetics: Eugenics, euthenics and euphenics; genetic counseling, pre-nata
Week 10	Eugenics euthenics and euphenics, genetic vo
	Applied genetics: Eugenics, eutherics and ear- diagnostics, DNA-finger printing, transgenic animals
June 20-25	diagnostics, DNA-finger printing, transger
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Week 11	The state of the s
June 27-30	Revision alter completion of Units.
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