



ZOOLOGY UPDATED NEET 2024 SYLLABUS

SL.NO	CHAPTER NAME	CURRENT SYLLUBUS		DELETED TOPICS IF ANY
		TOPICS	ADDED TOPICS IF ANY	
1	THE LIVING WORLD	<ul style="list-style-type: none">• What is living?• Biodiversity• Need for classification Taxonomy & Systematics• Concept of species and taxonomical hierarchy• Binomial nomenclature	NIL	<ul style="list-style-type: none">• Tools for study of taxonomy- Museum, Zoos, Herbaria, Botanical gardens
2	ANIMAL KINGDOM	<ul style="list-style-type: none">• Salient features and classification of animals- nonchordate up to phyla level and chordate up to classes level (three to five salient features and at least two examples)	NIL	NIL
3	STRUCTURAL ORGANISATION IN ANIMALS	<ul style="list-style-type: none">• Animal tissues• Morphology, anatomy and functions of different system (digestive, circulatory, respiratory, nervous and reproductive) of an insect	<ul style="list-style-type: none">• Morphology and anatomy of frog (brief account only)	NIL
4	BIOMOLECULES	<ul style="list-style-type: none">• Chemical constituents of living cells• Biomolecules-structure and function of proteins, carbohydrates, lipids, nucleic acids• Enzymes-types, properties enzyme action• Classification and nomenclature of enzymes	NIL	<ul style="list-style-type: none">• Dynamic state of body constituent• Metabolic basis for living• Living state
5	DIGETION AND ABSORPTION	DELETED		



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6	BREATHING AND EXCHANGE OF GASES	<ul style="list-style-type: none">• Respiratory organs in animals (recall only)• Respiratory system in humans• Mechanism of breathing and its regulation in humans• Exchange of gases, transport of gases and regulation of respiration• Respiratory volumes• Disorders related to respiration- Asthma, Emphysema, Occupational respiratory disorders.	NIL	NIL
7	BODY FLUIDS AND CIRCULATION	<ul style="list-style-type: none">• Composition of blood, blood groups, coagulation of blood• Composition of lymph and its function• Human circulatory system- structure of human heart and blood vessels• Cardiac cycle, cardiac output.• ECG• Double circulation• Regulation of cardiac activity• Disorders of circulatory system- Hypertension, coronary artery disease, Angina pectoris, Heart failure.	NIL	NIL



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8	EXCRETORY PRODUCTS AND THEIR ELIMINATION	<ul style="list-style-type: none">• Modes of excretion- Ammonotelism, ureotelism, uricotelism• Human excretory system- structure and fuction• Urine formation, osmoregulation• Regulation of kidney function- Renin-angiotensin, Atrial Natriuretic Factor ADH and Diabetes insipidus• Role of other organs in excretion;• Disorders Uremia, Renal failure, Renal calculi, Nephritis• Dialysis and artificial kidney.	NIL	NIL
9	LOCOMOTION AND MOVEMENT	<ul style="list-style-type: none">• Types of movement- ciliary, flagellar, muscular• Skeletal muscle- contractile proteins and muscle contraction• Skeletal system and its functions (To be dealt with the relevant practical of practical syllabus)• Joints• Disorders of muscular and skeletal system-Myasthenia gravis, Tetany, Muscular dystrophy, Arthritis, Osteoporosis, Gout.	NIL	NIL
10	NEURAL CONTROL AND COORDINATION	<ul style="list-style-type: none">• Neuron and nerves• Nervous system in humans central nervous system, peripheral nervous system and visceral nervous system• Generation and conduction of nerve impulse	NIL	<ul style="list-style-type: none">• Reflex action• Sense Organs• Elementary structure and function of eye and ear



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11	CHEMICAL COORDINATION AND INTEGRATION	<ul style="list-style-type: none">• Endocrine glands and hormones• Human endocrine system- Hypothalamus, pituitary, pineal, Thyroid, parathyroid, Adrenal, Pancreas, Gonads• Mechanism of hormone action (Elementary Idea)• Role of hormones as messengers and regulators• Hypo-and hyperactivity and related disorders (common disorders e.g. Dwarfism, Acromegaly, Cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease).	NIL	NIL
12	HUMAN REPRODUCTION	<ul style="list-style-type: none">• Male and female reproductive systems• Microscopic anatomy of testis and ovary• Gametogenesis- spermatogenesis & oogenesis• Menstrual cycle• Fertilisation, embryo development upto blastocyst formation, implantation• Pregnancy and placenta formation (Elementary idea)• Parturition (Elementary idea)• Lactation (Elementary idea).	NIL	NIL



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13	REPRODUCTIVE HEALTH	<ul style="list-style-type: none">• Need for reproductive health and prevention of sexually transmitted diseases (STD)• Birth control-Need and Methods, Contraception and Medical Termination of Pregnancy (MTP)• Amniocentesis• Infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (Elementary idea for general awareness).	NIL	NIL
14	PRINCIPLES OF INHERITANCE AND VARIATION	<ul style="list-style-type: none">• Heredity and variation• Mendelian Inheritance• Deviations from Mendelism Incomplete dominance, Co-dominance, Multiple alleles and Inheritance of blood groups, Pleiotropy• Elementary idea of polygenic inheritance• Chromosome theory of inheritance• Chromosomes and genes• Sex determination -in humans, birds, honey bee• Linkage and crossing over• Sex linked inheritance- Haemophilia, colour blindness• Mendelian disorders in humans- Thalassemia• Chromosomal disorders in humans: Down's syndrome, Tumer's and Klinefelter's syndromes.	NIL	NIL



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15	MOLECULAR BASIS OF INHERITANCE	<ul style="list-style-type: none">• Search for genetic material and DNA as genetic material• Structure of DNA and RNA• DNA packaging• DNA replication• Central dogma• Transcription, genetic code, translation• Gene expression and regulation- Lac Operon• Genome and human genome project• DNA finger printing,• Protein biosynthesis.	NIL	NIL
16	EVOLUTION	<ul style="list-style-type: none">• Origin of life• Biological evolution and evidences for biological evolution from Paleontology, comparative anatomy, embryology and molecular evidence• Darwin's contribution• Modern Synthetic theory of Evolution• Mechanism of evolution: Variation (Mutation and Recombination) and Natural Selection with examples, types of natural selection• Gene flow and genetic drift;• Hardy-Weinberg's principle• Adaptive Radiation• Human evolution.	<ul style="list-style-type: none">• Modern synthetic theory of evolution	NIL



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17	HUMAN HEALTH AND DISEASE	<ul style="list-style-type: none">• Pathogens• Parasites causing human diseases (Malaria, Filariasis, Ascariasis. Typhoid, Pneumonia, common cold, amoebiasis, ring worm, dengue, chikungunya)• Basic concepts of immunology- vaccines• Cancer, HIV and AIDS; Adolescence, drug and alcohol abuse, Tobacco abuse	NIL	NIL
18	MICROBES IN HUMAN WELFARE	<ul style="list-style-type: none">• In household food processing, Industrial production, sewage treatment, energy generation and as biocontrol agents and biofertilizers.	NIL	NIL
19	BIODIVERSITY AND CONSERVATION	<ul style="list-style-type: none">• Concept of Biodiversity• Patterns of Biodiversity• Importance of Biodiversity• Loss of Biodiversity• Biodiversity conservation• Hotspots, endangered organisms, extinction Red Data Book. Biosphere reserves, National parks and sanctuaries, Sacred Groves.	<ul style="list-style-type: none">• Endangered oragnism• Red Data Book	NIL