

TELANGANA BOARD OF INTERMEDIATE EDUCATION: HYDERABAD

ANNUAL ACADAMIC PLAN 2025-26

ZOOLOGY-II

SECOND YEAR

Month & No. of Working days/ No. of periods	Test/Exam/EAPCET/NEET Classes to be conducted	Periods allotted for each topic.
June 23	Syllabus Dictation & Q.P model Explanation UNIT-I: HUMANANATOMYANDPHYSIOLOGY IA. Digestion and Absorption 1.11. Digestive system-Alimentary canal and digestive glands; 1.1.3 Digestive process (physiology of digestion) , peristalsis, absorption of digested food 1.1.6 Gastro Intestinal hormones, disorders of digestive system IB. Breathing and Exchange of gases 1.2.1. Respiratory organs 1.2.2. HumanRespiratorySystem 1.2.3. Mechanismofbreathing, 1.2.4 Respiratory volumes and capacities, Exchange of gases 1.2.6 Transport of gases 1.2.7 Regulation of respiratory movements. EAPCET AND NEET CLASSES	01 02 01 02

SEPTEMBER 22	UNIT-IV: HUMANANATOMYANDPHYSIOLOGY IVA. Endocrine system and Chemical co-ordination: 4.1 Endocrine glands and hormones: Human endocrine system-Hypothalamus, pituitary, Pineal, Thyroid, Parathyroid, Thymus, Adrenal, Pancreas, Gonads, Hormones of Kidney, Heart and gastro intestinal tract and Liver 4.2 Mechanism of hormone action (Elementary idea only); Role of hormones as messengers and regulators 4.3 Human hormonal disorders due to Hypo and hyper secretions: Dwarfism, acromegaly, Gigantism, cretinism, goiter, exophthalmicgoiter, myxedema, tetany, diabetes mellitus, diabetes insipidus, insulin shock Adison's disease, Cushing's syndrome UNIT TEST III EAPCET/NEET- CLASSES EAPCET/NEET- TEST Practical's: CHARTS(HUMAN ANATOMY)	02 02 02 03 03 01 04 01 04
FIRSTTERM HOLIDAYS 28-09-2025 TO 05-10-2025		
OCTOBER 21	IVB. Immune System: 4.4 Basicconceptsof immunology- Types of cellsof the immunesystem,organsofimmunesystem 4.5 TypesofImmunity- InnateImmunity,AcquiredImmunity,ActiveandPassive Immunity,Humoralimmunity,Cellmediatedimmunity 4.6 Vaccination or Immunization 4.7 ImmunologicalDisorders- HIVandAIDS,Hypersensitivitydisorders,Autoimmune disorders,GraftRejections	02 01 01 01

	HUMAN REPRODUCTION	
	VA. Human Reproductive System:	
5.1	The Male Reproductive system	01
5.2	The Female Reproductive System	01
5.3	Gametogenesis-Spermatogenesis&Oogenesis	01
5.4	Menstrual Cycle	01
5.5	Fertilization and development ,Implantation	01
5.6	Gastrulation	}
5.7	Extraembryonic membranes	
5.8	Placenta Formation	
5.9	Parturition	
5.10	Lactation(elementary idea)	01
	VB. Reproductive health:	
5.12	Need for reproductive health and prevention of sexually transmitted diseases(STD)	02
	Birth control-Need and methods, contraception, barrier methods, intra urine devices ,oral contraceptive pills, surgical methods and medical termination of pregnancy (MTP)	01
5.13	Amniocentesis: in fertility and Assisted Reproductive Technology (ART)-IVF-ET, ZIFT, GIFT, ICSI, AI, Surrogacy	01
	EAPCET/NEET CLASSES	03
	Practicals: CHARTS(HUMAN ANATOMY)	03

NOVEMBER 23	UNIT-VI:GENETICS 6.1 Heredity and variation: Morgan's experiment, With reference to Drosophila (Drosophila melanogaster Grey, Black body color; Long Vestigial Wings) 02 01 6.2 Pleiotropy Co-dominance (Blood groups as example) 6.3 Multiplealleles: Inheritance of blood groups and ABO' Blood types, Rh-Blood types, genetic control of Rh system, Erythroblastiosisfoetalis 01 01 6.4 Polygenic Inheritance 6.5 Sex determination-Heterpgametic sex determination Male heterogamety, female heterogamety Sex determination in humans Genic balance theory, Barr bodies,Haplodiploidy in honey bees 02 01 6.6 Sex – Linked inheritance–Sex linkage in Drosophila, Sex linked inheritance - in Human beings – Haemophilia, colorblindness mendeli and isordersin humans - Thalassemia, Haemophilia, Sickle celled anaemia, cystiefibrosis PKU, Alkaptonuria. Y linked inheritance, XY Linked inheritance 02 02 6.7 Genetic disorders–Down's sysdrome, Turner's Syndrome and Klinefelter syndrome 02 6.8 Human Genome Project 01 6.9 DNA Finger Printing – protocol Application of DNA fingerprinting 01 EAPCET/NEET CLASSES 03 EAPCET/NEET–GRAND TEST-I 01 Practicals:CHARTS(HUMAN ANATOMY) 03	
HALF YEARLY EXAMS – 10-11-2025 TO 15-11-2025		

DECEMBER 24	UNITVII:ORGANIC EVOLUTION 7.1 Origin of life 7.2 Biological evolution 7.3 Evidences for biological evolution (palaeontological, comparative anatomical, embryological and molecular evidences) 7.4 Theories of evolution: Lamarckism (in brief), Darwin's Theory of Evolution-Natural Selection with example – industrial melanism, mutation theory 7.5 Modern Synthetic theory of Evolution- or Neo Darwinism 7.6 Mechanism of evolution Hardy-Weinberg Equilibrium; II Evolutionary forces Types of Natural Selection; Geneflow, Genetic load, genetic drift III Speciation Anagenesis, cladogenesis Allopatric speciation, Sympatric speciation 7.7 A brief account of evolution 7.8 Origin and evolution of man	01 01 01 01 01 01 01 01 01
	UNIT-VIII:APPLIED BIOLOGY 8.1 Animal husbandry, Dairy farm management 8.2 Poultry farm management 8.3 Bee-Keeping 8.4 Fishery Management 8.5 Bio technological Applications in medicine 8.6 Vaccines 8.7 Molecular Diagnosis 8.8 Gene Therapy 8.9 Transgenic Animals 8.11 Stemcells	02 01 01 01 01 01 01 01 02
	UNIT TEST-IV	01
	EAPCET/NEET CLASSES	02
	EAPCET/NEET – TEST	01
	Practical:CHARTS(EARTHWORM,COCKROACH)	02

JANUARY 19	EAPCET/NEET CLASSES EAPCET/NEET GRAND TEST – II Practicals: PHYSIOLOGY EXPERIMENTS	19
SANKRANTHI HOLIDAYS – 11-01-2026 to 18-01-2026		
PRE-FINALEXAMINATIONS–I FROM 19-01-2026 to 24-01-2026		
FEBRUARY 24	PRACTICAL EXAMINATION IPE 2026 (1st WEEK OF FEBRUARY - 2026)	24
MARCH 23	Theory Examinations IPE 2026 (1st WEEK OF MARCH) Last working Day 31-03-2026 SUMMER VACATION-01-04-2026 TO 31-05-2026 IPASE 2026: Last week of May 2026 Date of Re-opening of colleges (2026-27) 1st June 2026	23

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