

ZOOLOGY

Revised Weightage to Content (Zoology) (Plus Two)

Sl. No	Name of the chapter	Focus Area
1	Chapter 3 Human reproduction	3.1 Male reproductive system
		3.2 Female reproductive system
		3.3 Spermatogenesis ,Oogenesis, Function of acrosome
		3.4 Menarche, Menopause, LH surge, Ovulation, Corpus Luteum
		3.5 Fertilisation (definition), Cleavage, Morula, structure of blastocyst, fate of the cells in blastocyst
		3.6 Placental hormones, Stem cells, Major features of embryonic development at various months of pregnancy
		3.7 Significance of Colostrum
2	Chapter 4 Reproductive Health	4.2 Various Contraceptive methods
		4.4 Sexually transmitted diseases
		4.5 Assisted Reproductive Technologies
3	Chapter 5 Principles of Inheritance and Variation	5.2.1 Law of Dominance
		5.2.2 Law of Segregation
		5.2.2.1 Incomplete Dominance
		5.2.2.2 Co-dominance and its example
		5.4.1 Sex determination in Humans
		5.6.1 Pedigree analysis (definition) , symbols used in pedigree analysis
		5.6.2 Sickle Cell Anaemia, Haemophilia, Phenylketonuria
5.6.3 Down's Syndrome, Klinefelter's Syndrome, Turner's Syndrome		
4	Chapter 6 Molecular basis of inheritance	6.1 Salient features of DNA double helix,Central Dogma
		6.4 DNA replication is Semiconservative why?
		6.4.2 The Machinery and the Enzymes
		6.5 Transcription (Definition)
		6.5.1 Transcription Unit
		6.6 Genetic code
		6.8 Levels of regulation of gene expression in eukaryotes and prokaryotes
		6.8.1 Lac Operon
		6.9 BAC, YAC
		6.9.1 Salient Features of Human Genome
		6.10 DNA fingerprinting -steps and applications

5	Chapter 7 Evolution	7.3 What are the evidences of evolution?
		7.7 Hardy Weinberg principle
		7.9 Origin and Evolution of man
6	Chapter 8 Human health and disease	8.1 Common diseases in humans
		8.2 Immunity - Structure of Antibody
		8.3 AIDS
		8.4 Cancer
		8.5.3 Effects of Drug/Alcohol abuse
		8.5.4 Prevention and control
7	Chapter 10 Microbes in human welfare	10.1 Microbes in Household Products
		10.2.3 Chemicals enzymes and other bioactive molecules
		10.4 Microbes in Production of Biogas
		10.5 Microbes as biocontrol agents - Bacillus thuringiensis, Trichoderma
		10.6 Microbes as Biofertilisers
8	Chapter 15 Biodiversity and Conservation	15.1 Genetic, Species & Ecological Diversity
		15.1.2 Patterns of Biodiversity
		15.1.4 Causes of biodiversity loss
		5.2.2 In situ conservation, Ex situ conservation

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