Academic planner 2023 -2024 CLASS -XI

Biology

| Data 0 | Tanias (Content | Tarabia | N. Of | A -4°- °4° |
|------------|--|-------------|------------------|-----------------|
| Date & | Topics/ Content | Teaching | No. Of | Activities/prac |
| number | | pedagogy | Assignments/H.W | ticals |
| of days | | | | |
| 1/7/23 - | Chapter-1: The Living World | Discussion | TBQs and | To study the |
| 15/7/23 | What is living? | method | Assignment | parts of the |
| | Biodiversity; | | based on the | compound |
| No.of | Need for classification; three domains of | | chapter | microscope |
| days-12 | life; taxonomy and | | • | • |
| · | systematics; concept of species and taxonomical | | | |
| | hierarchy; binomial nomenclature | | | |
| | | Observation | TBQs and | Study of |
| | | based | Assignment | Spedimens/slid |
| | | Daseu | based on the | es/model and |
| | | | | identifications |
| | | | chapter | |
| | | | | with reasons, |
| | | | | Bacteria, |
| | Chapter-2: Biological Classification | | | yeast, |
| | Five kingdom classification; Salient | | | oscillatoria, |
| | features and classification of Monera, Protista | | | spirogyra, |
| | , | | | Rhizopus, |
| | and Fungi into | | | mushroom, |
| 1 < 1 10 0 | major groups: Lichens, Viruses and Viroids. | | | livorwort |
| 16/7/23 - | Chapter-3: Plant Kingdom | UTI | Syllabus chapter | |
| 30/7/23 | Salient features and distinguishing features of | Chapter 1 | 1 and 2 | |
| | plants into major groups - Algae, Bryophyta, | & 2 | | |
| No.of | Pteridophyta, | | | |
| days-12 | Gymnospermae | | | |
| | | | | |
| | | | | |
| 1/8/23 - | Chapter 4 | | | |
| 15/8/23 | | | | |
| | Chapter-4: Animal Kingdom | Observation | TBQs and | study of |
| | Salient features and classification of animals | based | Assignment | virtual |
| | non-chordates up to phyla level and | | based on the | specimens/slid |
| | chordates up to | | chapter | es/ model and |
| | class level (three to five salient features and at | | | identification |
| | least two examples of each category). | | | with reason. |
| | least two examples of each category). | | | Amoeba |
| | | | | ,hydra, liver |
| No. of | | | | |
| days -11 | | | | fluke, honey |
| | | | | To Study |
| | | | | modifications |
| | | | | of roots, |
| 16/8/23 - | | | | leaves and |
| 31/8/23 | Chapter 5: Marphalagy of Flowering Plants | | | stem. |
| 31/0/23 | Chapter-5: Morphology of Flowering Plants | | | |

| | | Students | Assignment | Study & |
|------------------|--|------------------------|-------------------------|-----------------|
| | Morphology of different flowering plants, the | would be | based on Ch-5 | identify |
| | root, stem, | given a field | | different types |
| No.of | leaf, inflorescence, flower, fruit, seed. | trip | | of |
| days-13 | Description of family Solanaceae | _ | | inflorescences(|
| | Chapter 6: Anatomy of flowering plants | Direct | | Preparation |
| | , , , | instruction | | and study of |
| | | | | TS of dicot |
| | Anatomy and functions of tissue systems in | and | | Study of |
| | dicots and monocots | observation | | distribution of |
| | | . | | stomata on the |
| | | Pair | | |
| | Chapter -7 Structural organisation in animals | teaching | TDO 1 | |
| | | | TBQs and | |
| | Morphology, Anatomy and functions of different | | Assignment | |
| | systems (digestive, circulatory, respiratory, | | based on the | |
| | nervous and reproductive) of frog | | chapter | |
| | nervous and reproductive) of frog | Animated | TBQs and | То |
| | | videos | Assignment | demonstrate |
| | | videos | based on the | osmosis by |
| 1/9/23 - | | | chapter | potato |
| 15/9/23 | Chapter- 8 Cell: The unit of life | | chapter | osmometer |
| No.of | Chapter- o Cent. The unit of the | Padlet and | | Osmometer |
| days-11 | Cell theory & cell as basic unit of life, | | | |
| uays-11 | cen theory & cen as basic unit of me, | sway | | |
| | Structure of prokaryotic & eukaryotic cells | | | |
| | | | TBQs and | To separate & |
| | Plant and animal cell; cell envelope; cell | | Assignment | study the |
| | membranecell wall; the cell organelles,structure | | based on the | Plant |
| | and function of endomembrane | | chapter | Pigments by |
| | system, endoplasmic reticulum, golgi bodies, | | | Paper |
| | lysosomes, vacuoles mitochondria, | | | Chromatograp |
| | ribosomes,plastids, plastids ,ribosomes | | | hy. |
| | mitochondria, plastids, ribosomes, cytoskeleton, | | | |
| | cilia and | | | |
| | flagella, nucleus and types of chromosomes | | | |
| 16/9/23 - | | Syllabus | Syllabus | |
| 31/9/23 | Term I examination | Chapters 1 | Chapters 1 to 8 | |
| No.of | | | | |
| No.01 days-12 | | | | |
| uays-12 | | D: | TDOs and | To dood for |
| | | Reciprocate d teaching | _ | To test for |
| | | u teaching | Assignment based on the | glucose, |
| | | | | sucrose, |
| | Chapter-9: Biomolecules | | chapter | starch, |
| | Chemical constituents of living cells: | | | proteins & |
| 1/10/23- | biomolecules, structure and function of | | 1 | fats & to show |
| 15/10/23 | proteins, | | | their presence |
| No. of | carbohydrates, lipids, nucleic acids, enzymes, | | | in suitable |
| days 10 | types, properties, enzyme action | | | plant & |

| | [C] | 1 | TED C | I |
|------------|---|-------------|-------------------|-----------------|
| | Chapter-17 | | TBQs and | |
| | Breathing and its regulation in humans - | | Assignment | |
| | exchange of gases, transport of gases and | | based on the | |
| | regulation of respiration, | | chapter | |
| | respiratory volume; disorders related to | | | |
| | respiration - asthma, emphysema, occupational | | | |
| | respiratory | | | |
| | disorders | | | |
| | Chapter- 18 | | | |
| | Chapter-18 | Project | TBQs and | |
| | Body Fluids and Circulation | based | Assignment | |
| | Composition of blood, blood groups, | learning | based on the | |
| | coagulation of blood; composition of lymph | | chapter | |
| | 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. | | | |
| | F | | | |
| | | Class test | Syllabus | |
| | | for term II | Chapter 13 | |
| 16/10/02 | | | Photosynthesis in | |
| 16/12/23 - | Charter 10 | | higher plants | |
| 31/12/23 | Chapter- 19 | | | m |
| | | Art | Assignment | To test the |
| | Chapter-19: Excretory Products and Their | integration | | given sample |
| | Elimination | | | of urine for |
| | Modes of excretion - ammonotelism, | | | the presence |
| | ureotelism, uricotelism; human excretory | | | of urea, sugar, |
| | system - structure | | | albumin & |
| | and function; urine formation, osmoregulation; | | | bile salts |
| | regulation of kidney function - renin - | | | |
| | • | | | |
| | angiotensin, | | | |
| | atrial natriuretic factor, ADH and diabetes | | | |
| | insipidus; role of other organs in excretion; | | | |
| N C | disorders - | | | |
| No. of | uraemia, renal failure, renal calculi, nephritis; | | | |
| days 13 | dialysis and artificial kidney, kidney transplant | | | |

| | | Cooperative | TBQs and | Study & |
|-----------|---|-------------|--------------|-----------------------------|
| | | learning | Assignment | identification |
| | | learning | based on the | of human |
| | Chapter-20: Locomotion and Movement | | | |
| | Types of movement - ciliary, flagellar, | | chapter | bones & joints |
| | muscular; skeletal muscle- contractile proteins | | | with the help of virtual |
| | and muscle | | | |
| | contraction; skeletal system and its functions; | | | images models |
| | joints; disorders of muscular and skeletal | | | |
| | system - | | | |
| | myasthenia gravis, tetany, muscular dystrophy, | | | |
| | arthritis, osteoporosis, gout. | | | |
| | | | TBQs and | Study & |
| | | | Assignment | description of |
| | | | based on the | some flowers |
| | | | chapter | & their parts |
| | Chapter-21: Neural Control and Coordination | | | from |
| | Neuron and nerves; Nervous system in humans - | | | solanaceae |
| | central nervous system; peripheral nervous | | | |
| | system | | | |
| | and visceral nervous system; generation and | | | |
| | conduction of nerve impulse | | | |
| | conduction of herve impulse | | | |
| | | | | |
| 1/1/24 - | | WINTER | WINTER | WINTER |
| 15/1/24 | WINTER BREAK | BREAK | BREAK | BREAK |
| NI C | | | | |
| No.of | | | | |
| days-NIL | | | | |
| 16/1/24 - | Chapter 22 Chemical Coordination and | | | |
| 31/1/24 | Integration | | | |
| | | Project | TBQs and | |
| | Endocrine glands and hormones; human | based | Assignment | |
| | endocrine system - hypothalamus, pituitary, | learning | based on the | |
| | pineal, thyroid, | | chapter | |
| | parathyroid, adrenal, pancreas, gonads; | | | |
| | mechanism of hormone action (elementary | | | |
| | idea); role of | | | |
| | hormones as messengers and regulators, hypo - | | | |
| | and hyperactivity and related disorders; | | | |
| | dwarfism, | | | |
| | acromegaly, cretinism, goiter, exophthalmic | | | |
| | goiter, diabetes, Addison's disease. | | | |
| | Note: | 1 | | |
| No.of | Diseases related to all the human physiological | 1 | | |
| days-13 | systems to be taught in brief. | | | |
| | systems to be taught in bilei. | Revision | Revision | Revision |
| 1/2/24 - | | 110 (1910) | 110 (101011 | 110 (151011 |
| 15/2/24 | Doubts and problems to be taken up | | 1 | 1 |

| No.of days-12 | Revision | | |
|------------------|--------------------|----------|--|
| | | Complete | |
| | Annual Examination | syllabus | |