TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION, HYDERABAD

ACADEMIC YEAR 2020-2021

30% DELETED CONTENT IN VIEW OF COVID-19 PANDEMIC

INTERMEDIATE 2nd YEAR BOTANY SYLLABUS

Chapter No. & Name	Deleted content
1. TRANSPORT IN PLANTS	1 TO 25 pages
2. MINERAL NUTRITION	29 TO 42 pages
6. PLANT GROWTH AND	105 to 113 pages
DEVELOPMENT	& 118 to123 pages
7. BACTERIA	127 to 135 Pages
8. VIRUSES	137 to 145 pages
13. STRATEGIES FOR	
ENHANCEMENT IN FOOD	241 TO 256 Pages
PRODUCTION	

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INTERMEDIATE 2nd YEAR BOTANY PRACTICAL SYLLABUS

Part-I (To be performed by students)

1. Study of Osmosis by potato Osmoscope.
2. Study of plasmolysis in epidermal peel.
3. Comparative study of rates of transpiration in the upper and lower surfaces of leaf (by $cocl_2$ method)
4. Study of plant population density and frequency by quadrant method.

Part II (To be demonstrated by teacher)

5. Study of imbibition of seeds
6. Observe & Comment: Suction due to transpiration pull
7. *Activity*: Exercise on controlled pollination- Emasculation, tagging & bagging

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CHEMISTRY- II Year Syllabus (2020-2021) DELETED

Chapter 1	**Solid state**	**1.11** Electrical properties **1.12** Magnetic properties(Band theory of metals, conductors, semiconductors and insulators and n and p type semiconductors)
Chapter 2	**Solutions**	**2.7** Abnormal molar masses-van't Hoff factor.
Chapter 3	**Electrochemistry and Chemical Kinetics** **Electrochemistry**	**3.1** Electrochemical cells **3.2** Galvanic cells **3.5** Electrolytic cells **3.6** Batteries: primary and secondary batteries **3.7** Fuel cells **3.8** Corrosion of metals-Hydrogen economy **3.14** Collision theory of chemical reaction rates.
Chapter 4	**Surface Chemistry**	**4.5** Emulsions – types of emulsions, catalysis, homogenous and heterogenous, activity and selectivity of solid catalysis, enzyme catyalsis.
Chapter 5	**General Principles of**	Entire chapter deleted

	Metallurgy	
Chapter 6	**P-block Elements** **Group-15 Elements**	6.7 Phosphine-preparation and properties 6.8 Phosphorous halides 6.9 Oxoacids of phosphorous 6.17Sulphuric acid-industrial process of manufacture.
Chapter 7	**d and f Block Elements &Coordination Compounds**	7.4 Some important compounds of transition elements 7.5 Inner transition elements 7.6Actinoids 7.7 Some applications of d and f block elements.
Chapter 8	**Polymers**	Entire chapter deleted
Chapter 9	**Biomolecules**	**9.1** Disaccharides (sucrose, lactose, maltose), poly saccharides(starch, cellulose, glycozen), importance of carbohydrates) **9.3** Enzymes: Enzymes, mechanism of enzyme action 9.4 Vitamins **9.6** Hormones.
Chapter 10	**Chemistry in Everyday life**	Entire chapter deleted
Chapter 11	**Halo Alkanes and Halo Arenes**	**11.6** Polyhalogen compounds.
Chapter 12	**Organic Compounds Containing C,H and O**	**12.7** Commercially important alcohols (uses with special reference to methanol and ethanol
Chapter 13	**Organic compounds containing nitrogen**	**II.Diazonium salts** **13.7** Methods of preparation of diazonium salts **13.8** Physical properties **13.9** Chemical reactions

		13.10 Importance of diazonium salts in synthesis of aromatic compounds **III.Cyanides and Isocyanides** **13.11** Structure and nomenclature of cyanides and isocyanides 13.12 Preparation, physical properties and chemical reactions of cyanides and isocyanides.

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INTERMEDIATE CHEMISTRY PRACTICAL SYLLABUS

b. Preperation of one Lyophilic and one lyophobic sol Lyophilic sol – starch, egg albumin and gum lyophobic sol – aluminium hydroxide, ferric hydroxide, arsenous sulphide.

c. Chromatography

i) Separation of pigments from extracts of leaves and flowers by paper chromatography and determination of Rf values.

ii) Separation of constituents present in an inorganic mixture containing two cations only (constituents having large difference in Rf values to be provided).

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INTERMEDIATE 2nd YEAR MATHEMATICS (IIA) SYLLABUS

S.NO	CHAPTER	TOPICS	no of periods	REMARKS
1	1. Complex Numbers	1.3: Modulus and amplitudes, 1.4: Geometrical and polar representation	4	
2	2. Demovier's Theorem	Exercise to be section II onwards	4	
3	3. Quadratic expressions	3.3 Quadratic inequalities	2	
4	5. Permutations and Combinations	5.3: Permutations when repetitions are allowed, 5.4: Circular permutations, 5.5: Permutations with constraint repetitions Exercise 5(e) Section III	13	
5	6.Binomial Theorem	Exercise 6(a) Section II 5th problem onwards and related examples Exercise 6(b) Section II and related examples Exercise 6(c)	20	
6	7. Partial Fractions	Exercise 7(d) deleted		
7	8.Measures of Dispersion	8.2.2 Mean Deviation for grouped data onwards Exercise 8(a) Section I Problem 3 onwards	6	
8	9. Probability	9.3.9 Baye's Theorem and problems on Baye's theorem	6	
	TOTAL		**55**	

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INTERMEDIATE 2nd YEAR MATHEMATICS (IIB) SYLLABUS

Deleted Syllabus of Mathematics IIB for the Academic year 2020-2021.				
S.NO	CHAPTER	TOPICS	no of periods	REMARKS
1	3. Parabola	3.2: Equation of tangent and normal at a point on the parabola	7	
2	4. Ellipse	4.2: Equation of tangent and normal at a point on the ellipse	7	
3	5. Hyperbola	5.2: Equation of tangent and normal at a point on the hyperbola Exercise 5(a) Section II onwards and related examples	8	
4	6. Integration	6.2(b) Integration by parts onwards 6.3: Integration-partial fraction method 6.4: Reduction formulae	12	
5	7. Definite Integrals	Exercise-7(b) Section II (8 to 15), 7.5: Reduction formula 7.6: Application of definite integrals to areas	6	
6	8. Differential equations	8.2(b) Homogeneous DE, 8.2(c) Non homogeneous DE 8.2(d) Linear differential equations onwards	5	
	TOTAL		45	

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INTERMEDIATE 2nd YEAR PHYSICS PRACTICAL SYLLABUS

No deletions

Deleted Experiments of Second Year Practicals

1. Concave mirror
2. Tangent galvanometer
3. Characteristics of transistor

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INTERMEDIATE 2nd YEAR PHYSICS SYLLABUS

CHAPTER – 1: WAVES

1.8 Doppler Effect

CHAPTER– 2: RAY OPTICS AND OPTICAL INSTRUMENTS

2.2 Reflection of light by Spherical Mirrors

2.8.2 Scattering of light

CHAPTER – 3: WAVE OPTICS

3.6.3 Resolving power of optical instruments

3.7 Polarization

CHAPTER – 4: ELECTRIC CHARGES AND FIELDS

4.15.3 Field due to a uniformly charged thin spherical shell

CHAPTER– 5: ELECTROSTATIC POTENTIAL AND CAPACITANCE

5.16 Van de Graaf generator

CHAPTER – 6: CURRENT ELECTRICITY

6.7 Resistivity of various Materials

6.10 Combination of resistors-series and parallel

CHAPTER – 7: MOVING CHARGES AND MAGNETISM

7.4 Motion in combined electric and magnetic fields

CHAPTER – 8: MAGNETISM AND MATTER

8.2.2 Bar Magnet as a equivalent solenoid

8.2.3 The dipole in a uniform magnetic field

8.6 Magnetic properties of materials

8.7 Permanent magnets and electromagnets

CHAPTER – 9: ELECTROMAGNETIC INDUCTION

No deletions

CHAPTER – 10: ALTERNATING CURRENT

10.7 Power in AC Circuit: The Power Factor

CHAPTER – 11: ELECTRO MAGNETIC WAVES

11.2 Displacement Current

CHAPTER–12: DUAL NATURE OF RADIATION AND MATTER

12.9 Davisson and Germer Experiment

CHAPTER–13: ATOMS

No deletions

CHAPTER–14: NUCLEI

14.4.2 Nuclear Binding energy

14.6 Radioactivity

CHAPTER–15

SEMICONDUCTOR ELECTRONICS: MATERIALS, DEVICES AND SIMPLE CIRCUITS

15.8.1 Zener diode

15.9.3 Transistor as a device

15.9.4 Transistor as an amplifier (CE configuration)

15.9.5 Feedback amplifier and transistor oscillator

CHAPTER– 16: COMMUNICATION SYSTEMS

No deletions

Deleted Experiments of Second Year Practicals

1. Concave mirror
2. Tangent galvanometer
3. Characteristics of transistor

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INTERMEDIATE 2nd YEAR ZOOLOGY PRACTICAL SYLLABUS

A. DISSECTIONSASMODELSTHROUGHUNLABELLEDMODELSO R CHARTS (HUMAN)

B. PHYSIOLOGY EXPERIMENTS

1. Identification of presence of lipids/fats in the given samples.
2. Identification of presence of starch in the given samples.

C. VERTEBRATE SLIDES OF MAMMAL

3. T.S. of stomach
4. T.S. of intestine
5. T.S. of liver
6. T.S. of pancreas

D. OSTEOLOGY –JOINTS

7. Ball and socket joint
8. Hinge joint
9. Pivot joint
10. Gliding joint

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INTERMEDIATE 2nd YEAR ZOOLOGY SYLLABUS

UNIT-I Human Anatomy and Physiology-I

Unit I A: Digestion and absorption

Alimentary canal and digestive glands; Role of digestive enzymes and gastrointestinal hormones; Peristalsis, digestion, absorption and assimilation of proteins, carbohydrates and fats, egestion, Calorific value of proteins, carbohydrates and fats (for box item-not to be evaluated); Nutritional disorders: Protein Energy Malnutrion (PEM), indigestion, constipation, vomiting, jaundice, diarrhea, Kwashiorkor.

UNIT III: Human Anatomy and Physiology-III

Unit IIIA: Muscular and Skeletal system

Skeletal system and its functions; Joints. *(to be dealt with relevance to practical syllabus);* Disorders of the muscular and skeletal system: myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout, regormortis.

Unit III B: Neural control and co-ordination

Reflex action; Sensory perception; Sense organs; Brief description of other receptors; Elementary structure and functioning of eye and ear.

UNIT VII: Organic Evolution

Origin of Life, Biological evolution and Evidences for biological evolution (palaeontological, comparative anatomical, embryological and molecular evidences); Theories of evolution: Lamarckism (in brief), Darwin's theory of Evolution -Natural Selection with example (Kettlewell's experiments on Bistonbitularia), Mutation Theory of Hugo De Vries; Modern synthetic theory of Evolution - Hardy-Weinberg law ; Types of Natural Selection; Gene flow and genetic drift; Variations (mutations and genetic recombination); Adaptive radiation - viz., Darwin's finches and adaptive radiation in marsupials; Human evolution; Speciation - Allopatric, sympatric; Reproductive isolation.

UNIT VIII: Applied Biology

Bio-medical Technology : Diagnostic Imaging X-ray, CTscan, MRI, ECG, EEG; ELISA.

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