Revision Study Planner
(with i-Tutor)
for
TYM (Phase-3)
XI-NEET
(June 2021 - February 2022)

Aakash iTutor

Aakash Digital

8800012998
aakashitutor@aesl.in
digital.aakash.ac.in
A lot has changed at Aakash during the transition from a humble coaching institute to becoming a recognized name in the education field. We live by the notion that the very essence of success is a strong value system. We still believe in the age-old Indian concept of “Guru-Shishya” relationship where a guru shares his knowledge reserve with his pupils and the ‘Shishya’ strives hard to quench his/her thirst for knowledge.

It has been our endeavour to make Aakash much more than a coaching institute, which is to build it into an institution of repute and purpose. We consider our students the torchbearers of the future of the country and thus, aim to enlighten the future of the nation through this young generation. We dream of a progressing India through the eyes of our students and assist them in accomplishing their dreams with the collective efforts of our faculty & staff members, our students and their parents.

For 33 years, we have been nurturing students and helping them in their endeavour to qualify in various Engineering and Medical entrance exams in the country. This endeavour is actually a journey, which we take along with our students. We wish to feel their emotions, their frustrations, their dreams, their vision, their struggles and their joys. Together we live an experience, which they would remember as one of the most cherished moments in their lives after qualifying the coveted competitive exams.

Even today, we aim at clearing doubts and strengthening the fundamentals of students in their subjects, because we believe these cleared doubts and strengthened fundamentals will eventually strengthen the destiny of our nation, which actually lies in these hands that are holding the ‘mighty’ pen & are now learning with technology. And we are confident that with Aakash, their future is in safe and progressive hands.

From Chairman’s Desk

J. C. Chaudhry
Chairman & Managing Director (CMD)
About Aakash iTutor

Recorded Video Lectures on NEET syllabus by master Aakash Faculty help you boost your preparation and perform well in the exam. Learn at your own pace with Video Lectures. Assess yourself by taking the online tests and clear your doubts via 'Ask an Expert'.

Your tools to prepare

Watch Videos
- Bookmark
  - Revisit it for future

- Feedback
  - Give your Feedback on the video

- Adjust
  - Adjust Video quality and speed

- Search
  - Finds videos, e-books, questions with search queries

Practice & Assess
- Chapter Assignments
  - Test your chapter concepts

- ebooks Questions & Solutions
  - Practice questions & solutions

- Tests & Reports
  - Attempt tests offline/online & check your ranking

- Learn More section
  - Check for complimentary learning material

Plan
- Dashboard
  - Check your progress

- Study Planner
  - For systematic planning and execution of your preparation

- Notifications
  - Check for updates from us

Doubt Clearance
- Ask an expert
  - Get real time solutions from our database of queries and answers. Also get your doubts clarified by Aakash Faculty in a stipulated time

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NEET (National Eligibility cum Entrance Test)

From 2019 onwards the National Eligibility cum Entrance Test has been conducted by the National Testing Agency (NTA). NEET (UG) is applicable for admission to MBBS/BDS Courses in India in Medical/Dental Colleges run with the approval of Medical Council of India/Dental Council of India under the Union Ministry of Health and Family Welfare, Government of India.

The responsibility of the NTA is limited to the conduct of the entrance examination, declaration of result and providing All India Rank to the Directorate General Health Services (DGHS), New Delhi, Government of India for the conduct of counselling for 15% All India Quota Seats and for supplying the result to state/other Counselling Authorities.

Candidates seeking admission in AFMC for MBBS Course will register online through NEET and they will also have to register at www.afmc.nic.in. The candidates who want to get admission in AFMC MBBS course will have to necessarily appear in NEET entrance examination. After qualifying NEET exam, candidates will have to appear for ToELR computer-based test (CBT) conducted by AFMC authority.

As per the NMC Act, 2019, AIIMS and JIPMER have now be replaced by NEET. Now the candidates need to apply only for NEET to get admission to MBBS courses in AIIMS, New Delhi, JIPMER and all AIIMS like Institutions.
In view of the current situation being faced due to the Novel Coronavirus (COVID-19) outbreak, the safety of our students is our prime concern. We are, thus, taking necessary steps towards ensuring that the studies of our students remain uninterrupted.

In order to avoid any loss of studies, we have shared i-Tutor credentials with you and now we are sharing STUDY PLANNER to streamline the flow of studies. As and when the situation improves, we shall commence classes for the regular classroom course, along with continuing to provide free i-Tutor access.

Follow the STUDY PLANNER and BE AHEAD OF THE PACK.
Revision Study Planner (with i-Tutor) for TYM (Phase-3) XI-NEET June 2021 - February 2022
<table>
<thead>
<tr>
<th>Subject</th>
<th>Chapters</th>
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| Physics     | Chapter 2: Units & Measurements  
2.4 Significant figures & dimensional analysis  
2.5 Application of dimensional analysis |
| Chemistry   | Chapter 1: Some Basic Concepts of Chemistry  
1.3 Mole Concept  
1.4 Law of chemical equivalence  
1.5 Percentage composition and empirical formula  
1.6 Stoichiometry |
| Botany      | Chapter 2: Cell Cycle and Cell Division  
2.1 Introduction  
2.2 Mitosis |
| Zoology     | Chapter 1: Structural Organisation in Animals  
1.3 Muscular and nervous tissue  
Chapter 2: Biomolecules  
2.1 Introduction to Biomolecules  
2.2 Biomolecules-Proteins  
2.3 Biomolecules-Lipids |

**Weekly Study Planner**

**14th June - 20th June, 2021**

**Physics**
- Chapter 2: Units & Measurements
  - 2.4 Significant figures & dimensional analysis
  - 2.5 Application of dimensional analysis

**Chemistry**
- Chapter 1: Some Basic Concepts of Chemistry
  - 1.3 Mole Concept
  - 1.4 Law of chemical equivalence
- Chapter 1: Cell - The Unit of Life
  - 1.5 Eukaryotic cell part-4
  - 1.6 Eukaryotic cell part-5

**Botany**
- Chapter 1: Cell - The Unit of Life
  - 1.3 Mole Concept
  - 1.4 Law of chemical equivalence

**Zoology**
- Chapter 1: Structural Organisation in Animals
  - 1.3 Muscular and nervous tissue
- Chapter 2: Biomolecules
  - 2.1 Introduction to Biomolecules
  - 2.2 Biomolecules-Proteins
  - 2.3 Biomolecules-Lipids

**21st June - 27th June, 2021**

**Physics**
- Chapter 3: Motion in a Straight Line
  - 3.1 Motion in a straight line
  - 3.2 Speed and velocity

**Chemistry**
- Chapter 1: Some Basic Concepts of Chemistry
  - 1.5 Percentage composition and empirical formula
  - 1.6 Stoichiometry

**Botany**
- Chapter 2: Cell Cycle and Cell Division
  - 2.1 Introduction
  - 2.2 Mitosis

**Zoology**
- Chapter 2: Biomolecules
  - 2.2 Biomolecules-Proteins
  - 2.3 Biomolecules-Lipids

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### Physics

- **Chapter 3: Motion in a straight line**
  - 3.7 Application of calculus (Part-A)
  - 3.8 Application of calculus (Part-B)

- **Chapter 3: Classification of elements and periodicity in properties**
  - 3.1 Genesis of classification and modern periodic table

### Chemistry

- **Chapter 2: Structure of Atom**
  - 2.4 Bohr’s model and dual nature of matter
  - 2.5 Heisenberg’s uncertainty principle and quantum mechanical model

- **Chapter 3: The Living World**
  - 3.4 Taxonomical aids
  - 3.5 Taxonomical aids (1)

### Botany

- **Chapter 4: Biological Classification**
  - 4.1 Kingdom systems of classification
  - 4.2 Monera

### Zoology

- **Chapter 3: Digestion and Absorption**
  - 3.4 Physiology of digestion II

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### Botany

- **Chapter 3: Digestion and Absorption**
  - 3.3 Physiology of digestion I

### Zoology

- **Chapter 4: Breathing and Exchange of Gases**
  - 4.1 Breathing and Exchange of gases

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### 4th Oct. - 10th Oct., 2021

**Physics**
- Chapter 6: Work, Energy & Power
  - 6.3 Introduction to Energy
  - 6.4 Potential energy and Work energy theorem
  - 6.5 Energy Conservation and Power

**Chemistry**
- Chapter 6: Thermodynamics
  - 6.8 Spontaneity, Entropy and Gibb's Free Energy Continued

**Botany**
- Chapter 6: Anatomy in flowering plants

**Zoology**
- Chapter 8: Neural control and coordination
  - 8.6 Hearing, gustation and olfaction

### 11th Oct. - 17th Oct., 2021

**Physics**
- Chapter 6: Work, Energy & Power
  - 6.6 Motion in a Vertical Circle
  - 6.7 Collision (1-Dimensional)

**Chemistry**
- Chapter 7: Equilibrium
  - 7.1 Physical Equilibrium

**Botany**
- Chapter 6: Anatomy in flowering plants
  - 6.4 Tissue system & Anatomy
  - 6.5 Secondary growth in dicot stem

**Zoology**
- Chapter 9: Chemical Coordination and integration
  - 9.1 Endocrine Glands (I) and Hormones
  - 9.2 Endocrine Glands (II) and Mechanism of Hormone Action
  - Chapter 10: Animal Kingdom (Non-chordates)
  - 10.1 Kingdom Animalia- Basis of classification
Weekly Study Planner

18th Oct. - 24th Oct., 2021

Physics
Chapter 6: Work, Energy & Power
6.8 Collision (2-Dimensional)
Chapter 7: System of Particles & Rotational Motion
7.1 Introduction to Rotational Mechanics

Chemistry
Chapter 7: Equilibrium
7.4 Acids and bases
7.5 Dissociation of weak acids, weak bases and water

Botany
Chapter 7: Plant kingdom
7.1 Plant kingdom introduction
7.2 Algae

Zoology
Chapter 10: Animal Kingdom (Non-chordates)
10.2 Phylum Porifera
10.3 Phylum Cnidaria


Physics
Chapter 7: System of Particles & Rotational Motion
7.2 Motion of centre of mass
7.3 Cross Product and Rotation variables

Chemistry
Chapter 7: Equilibrium
7.6 Hydrolysis of salt and buffer solution
7.7 Solubility and solubility product

Botany
Chapter 7: Plant kingdom
7.3 Algae(1)
7.4 Bryophytes

Zoology
Chapter 10: Animal Kingdom (Non-chordates)
10.4 Phylum Ctenophora and Phylum Platyhelminthes
10.5 Phylum Aschelminthes

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### Weekly Study Planner

#### 1st Nov. - 7th Nov., 2021

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<thead>
<tr>
<th><strong>Physics</strong></th>
<th><strong>Chemistry</strong></th>
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<th><strong>Zoology</strong></th>
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<td>Chapter 8: Redox Reactions</td>
<td>Chapter 7: Plant Kingdom</td>
<td>Chapter 10: Animal Kingdom (Non-chordates)</td>
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<tr>
<td>7.4 Relation Between Linear &amp; Rotational Variables</td>
<td>8.1 Oxidation and Reduction</td>
<td>7.5 Bryophytes(1)</td>
<td>10.6 Phylum Annelida</td>
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<td>7.5 Angular Momentum &amp; Principle of Moments</td>
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<td>7.6 Pteridophytes</td>
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#### 8th Nov. - 14th Nov., 2021

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<td>7.6 Moment of Inertia-I</td>
<td>8.2 Types of Redox Reactions &amp; Balancing of Redox Reactions</td>
<td>7.7 Pteridophytes(1)</td>
<td>10.7 Phylum Arthropoda</td>
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<tr>
<td>7.7 Moment of Inertia-II</td>
<td>8.3 Standard Reduction Potential &amp; Electrochemical Series</td>
<td>7.8 Pteridophytes(2)</td>
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</tbody>
</table>
### Weekly Study Planner

**Physics**
Chapter 7: System of Particles & Rotational Motion
- 7.8 Dynamics of Rotational Motion about Fixed Axis
- 7.9 Combined Translational & Rotational Motion

**Chemistry**
Chapter 9: Hydrogen
- 9.1 Hydrogen Its Preparation and Properties

**Botany**
Chapter 7: Plant Kingdom
- 7.9 Gymnosperm
- 7.10 Angiosperm

**Zoology**
Chapter 10: Animal Kingdom (Non-chordates)
- 10.7 Phylum Arthropoda (Contd.)

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**Physics**
Chapter 7: System of Particles & Rotational Motion
- 7.10 Rolling Motion

**Chemistry**
Chapter 9: Hydrogen
- 9.2 Water (H₂O), Heavy Water (D₂O), Hydrogen Peroxide (H₂O₂)

**Botany**
Chapter 8: Transport in Plants
- 8.1 Means of Transport
- 8.2 Plant Water Relation

**Zoology**
Chapter 10: Animal Kingdom (Non-chordates)
- 10.8 Phylum Mollusca
Physics

Chapter 8: Gravitation

- 8.1 Kepler's Law and Principle of Superposition
- 8.2 Acceleration Due to Gravity
- 8.3 Gravitational Field Intensity and Gravitational Potential Energy

Chemistry

Chapter 10: The s-Block Elements

- 10.1 Alkali Metals

Botany

Chapter 8: Transport in Plants

- 8.3 Plant Water Relation and Long Distance Transport of Water

Zoology

Chapter 10: Animal Kingdom (Non-chordates)

- 10.8 Phylum Mollusca (Contd.)
- 10.9 Phylum Echinodermata and Phylum Hemichordata

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<tr>
<td><strong>Physics</strong></td>
<td>9</td>
<td>Introduction to Elasticity and Its Parameters</td>
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<td>9.2</td>
<td>Elastic Potential Energy and Poisson's Ratio</td>
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<td>10</td>
<td>Introduction to Fluid Mechanics</td>
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<td>10.2</td>
<td>Archimedes Principle and Its Application</td>
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<tr>
<td><strong>Chemistry</strong></td>
<td>10</td>
<td>The s-Block Elements</td>
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<td>10.3</td>
<td>Compounds of Alkaline Earth Metals</td>
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<td><strong>Botany</strong></td>
<td>8</td>
<td>Transport in Plants</td>
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<td>8.5</td>
<td>Transpiration</td>
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<td><strong>Zoology</strong></td>
<td>11</td>
<td>Animal Kingdom (Chordates)</td>
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<td>11.2</td>
<td>Phylum Vertebrata-I</td>
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<td>Phylum Vertebrata-I (Contd.)</td>
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## Weekly Study Planner

### Physics
- **Chapter 10: Mechanical Properties of Fluids**
  - 10.3 Liquids in Non-inertial Frame
  - 10.4 Bernoulli’s Theorem

### Chemistry
- **Chapter 11: The p-Block Elements**
  - 11.2 Group 14 Elements (The Carbon Family)
- **Chapter 12: Organic Chemistry: Some Basic Principles & Techniques**
  - 12.1 Classification of Organic Compound and Nomenclature of Hydrocarbon
  - 12.2 IUPAC Nomenclature of Organic Compounds

### Botany
- **Chapter 9: Mineral Nutrition**
  - 9.1 Introduction and Role of Macro Elements

### Zoology
- **Chapter 11: Animal Kingdom (Chordates)**
  - 11.3 Phylum Vertebrata-II

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**27th Dec., 2021 - 2nd Jan., 2022**

**3rd Jan. - 9th Jan., 2022**

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Physics
Chapter 11: Thermal Properties of Matter
11.1 Thermal Expansion
11.2 Heat Capacity of a Body
11.3 Phase Change & Modes of Heat Transfer

Chemistry
Chapter 12: Organic Chemistry: Some Basic Principles & Techniques
12.3 Isomerism in Organic Compound
12.4 Fundamental Concept in Organic Reaction Mechanism-Electronic Displacement

Botany
Chapter 9: Mineral Nutrition
9.3 Metabolism of Nitrogen

Zoology
Chapter 11: Animal Kingdom (Chordates)
11.4 Phylum Vertebrata-IV

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Physics
Chapter 11: Thermal Properties of Matter
11.4 Convection and Radiation
11.5 Newton’s Law of Cooling
Chapter 12: Thermodynamics
12.1 Zeroth & First Law of Thermodynamics

Chemistry
Chapter 12: Organic Chemistry: Some Basic Principles & Techniques
12.5 Types of Reaction Intermediates
12.6 Questions Based on Relative Intermediate, Isomerism and Fission of Bond

Botany
Chapter 10: Photosynthesis in Higher Plants
10.1 Introduction, Contributions of Some Scientists, Photosynthetic Pigments

Zoology
Chapter 11: Animal Kingdom (Chordates)
11.5 Phylum Vertebrata-IV
## Weekly Study Planner

### Physics

**Chapter 15: Waves**
- 15.1 Introduction to Plane Progressive Harmonic Wave
- 15.2 Particle Velocity, Energy and Intensity of Wave
- 15.3 Longitudinal Wave

### Chemistry

**Chapter 13: Hydrocarbons**
- 13.5 Benzene

**Chapter 14: Environmental Chemistry**
- 14.1 Pollution, Causes of Pollution and Green Chemistry

### Botany

**Chapter 12: Plant Growth & Development**
- 12.1 Introduction, Phases of Growth, Growth Rates, Development
- 12.2 Classification of Phytohormones

**Chapter 12: Structural Organisation in Animals (Animal Morphology)**
- 12.3 Animal Morphology-III (Cockroach) (Contd.)
- 12.4 Animal Morphology-IV

### Zoology

**Chapter 12: Structural Organisation in Animals (Animal Morphology)**
- 12.3 Animal Morphology-III (Cockroach) (Contd.)
- 12.4 Animal Morphology-IV
Test Planner
(July 2021-February 2022)
### TYM (Phase-03)

**Version 1.0**

Regd. Office: Aakash Tower, 8, Pusa Road, New Delhi. Pin: 110005

Two Year Medical [Phase-03]: Planner for Fortnightly Test/Subjective Test/Term Exam - 2021-2022

(July 2021-February 2022)

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Weekdays &amp; Weekend</th>
<th>Test Pattern</th>
<th>Total No. of Questions</th>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td><strong>FT-01</strong></td>
<td>1st to 4th July</td>
<td>Fortnightly Test (FT)</td>
<td>90 (Physics &amp; Botany 23 Ques. in each subject, Chemistry &amp; Zoology 22 Ques. in each subject)</td>
<td>1.5 Hrs.</td>
<td>Single Objective (MCQ Type)</td>
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<tr>
<td><strong>FT-02</strong></td>
<td>22nd to 25th July</td>
<td>Term Exam (TE)</td>
<td>180 (45 from each subject)</td>
<td>3 Hrs.</td>
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<td>Test No.</td>
<td>May Batch Phase-03</td>
<td>Weekdays &amp; Weekend</td>
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<tr>
<td>FT-05</td>
<td>23rd to 26th Sep</td>
<td>Motion in a Plane: Introduction, Scalars &amp; Vectors, Multiplication of vectors by real numbers, Addition &amp; subtraction of vectors—graphical method, Resolution of vectors, Vector addition—analytical method, Motion in a plane, Motion in a plane with constant acceleration.</td>
<td>Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular Structure: Kossel-Lewis approach to chemical bonding, Octet rule, Covalent bond, Lewis representation of simple molecules, Formal charge</td>
<td>Biological Classification(Contd.): Economic importance of bacteria, Archaebacteria-methanogens, halophiles, thermoadidophiles, Eubacteria – Cyanobacteria, Mycoplasma, Protista-General characters, Chrysophytes, Dinoflagellates, Euglenoids, Slime moulds, Protozoans-major groups with some salient features</td>
</tr>
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</table>
## Two Year Medical [Phase-03]: Planner for Fortnightly Test/Subjective Test/Term Exam - 2021-2022

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<td>Morphology of Flowering Plants (Contd.): Position of floral parts on thalamus, parts of flower (calyx and corolla), aestivation, Androecium-adhesion, cohesion; Gynoecium, Placentation, Fruits-parts, types, edible parts, Structure of dicotyledonous and monocotyledonous seed, Families– brassicaceae, fabaceae, solanaceae, liliaceae.</td>
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<td>Test No.</td>
<td>May Batch Phase-03</td>
<td>Weekdays &amp; Weekend</td>
<td>Physics</td>
<td>Chemistry</td>
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<td>FT-10</td>
<td>13th to 16th Jan</td>
<td>System of Particles &amp; Rotational Motion</td>
<td>Redox Reactions, Hydrogen</td>
<td>Plant Kingdom: Introduction of plant kingdom, Classification systems– artificial, natural and phylogenetic, Branches of taxonomy, Algae–general characters Economic importance of algae, Characters of different classes of algae– chlorophyceae Phaeophyceae, rhodophyceae Bryophytes–general characters Bryophyte classes, economic importance</td>
<td>Neural Control &amp; Coordination: Reflex action: Reflex arc, characteristics, types of reflexes and their examples. Detail of knee jerk reflex, importance of reflex action. Sensory perception and processing: Human eye: Detailed structure &amp; function, Nose: Olfactory receptors, its structure and mechanism/working. Tongue: Different types of papillae &amp; taste buds, its structure and working. Different types of receptors in skin-Tangoreceptor, algesireceptor, thermoreceptor, Ear: Detailed structure &amp; function, Chemical Coordination &amp; Integration (upto pancreas)</td>
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<td>ST-07*</td>
<td>19th Feb</td>
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Thank You