## SYLLABUS BREAK -UP SCIENCE CLASS: VIII [SESSION 2024-25] SUBJECT: SCIENCE

|   | SUB TOPICS   |         |                         |
|---|--|---------|-------------------------|
| CHAPTERS                                      | Pre-Mid Exam   | PERIODS | DATE/TIME               |
| Chapter. 1- CROP PRODUCTION<br>AND MANAGEMENT | <ul> <li>1.1 Agricultural Practices.</li> <li>1.2 Basic Practices of Crop Production.</li> <li>1.3 Preparation of soil.</li> <li>1.4 Sowing</li> <li>1.5 Adding manure and fertilizers</li> <li>1.6 Irrigation</li> <li>1.7 Protection from weeds</li> <li>1.8 Harvesting</li> <li>1.9 Storage</li> <li>1.10 Food from animals .</li> </ul>  | 6       | 20/04/24 to<br>18/05/24 |
| Chapter. 8 – FORCE AND PRESSURE.              | <ul> <li>8.1 Force a push or a pull</li> <li>8.2 Fours are due to an interaction</li> <li>8.3 Exploring Forces</li> <li>8.4 A Force can change the state of motion</li> <li>8.5 Force can change the shape of an object</li> <li>8.6 Contac forces</li> <li>8.7Non contact forces</li> <li>8.8 Pressure</li> <li>8.9 Pressure exerted by liquids and gases</li> <li>8.10 Atmospheric pressure</li> </ul> | 7       |                         |
| Chapter 3- COAL AND PETROLEUM.                | <ul> <li>Inexhaustible and exhaustible natural resources</li> <li>3.1 Coal</li> </ul>  |         |                         |
|   | Mid Term Exam  | 3       |                         |
| Chapter. 2- MICROORGANISMS:<br>FRIEND AND FOE | <ul> <li>2.1 Microorganisms</li> <li>2.2 Where do microorganisms live?</li> <li>2.3 Microorganisms and us</li> <li>2.4 Harmful microorganisms</li> <li>2.5 Food preservation</li> <li>2.6 Nitrogen fixation</li> <li>2.7 Nitrogen cycle</li> </ul>   | 7       | 05/07/24 to<br>31/08/24 |
| Chapter. 3 COAL AND<br>PETROLEUM              | <ul><li>3.2 Petroleum</li><li>3.3 Natural gas</li><li>3.4 Some natural resources are limited</li></ul>   | 6       |                         |

|   |   |   | _                             |
|---|---|---|-------------------------------|
| Chapter -9 – FRICTION  Chapter -10- SOUND   | <ul> <li>9.1 Force and Friction</li> <li>9.2 Factors affecting friction</li> <li>9.3 Friction a necessary evil</li> <li>9.4 Increasing and reducing friction</li> <li>9.5 Wheels reducing friction</li> <li>9.6 Fluid friction</li> <li>10.1 Sound is producing by a vibrating body</li> <li>10.2 Sound produce by humans</li> <li>10.3 Sound needs a medium for propagation</li> <li>10.4 We hear sound through our ears</li> <li>10.5 Amplitude time period and frequency of a vibration</li> </ul> | 5 | Revision work<br>In September |
| Described Characteristics   | <ul><li>10.6 Audible and Inaudible sounds</li><li>10.8 Noise pollution</li></ul>  |   |                               |
| Previous Chapter  Chapter. 1- CROP PRODUCTION AND MANAGEMENT Chapter. 3 COAL AND PETROLEUM    | <ul> <li>Inexhaustible and exhaustible natural resources</li> <li>3.1 Coal</li> </ul>   |   |                               |
|   | Post Mid Term   |   |                               |
| Chapter -6-REPRODUCTION IN<br>ANIMALS.  | <ul> <li>6.1 Modes of reproduction</li> <li>6.2 Sexual reproduction</li> <li>6.3 Asexual reproduction</li> </ul>  | 5 | 1/10/24 to<br>31/10/24        |
| Chapter. 4- COMBUSTION AND<br>FLAME   | <ul> <li>4.1 Watt is combustion just let me?</li> <li>4.2 how do we control fire?</li> <li>4.3 Type of combustion</li> <li>4.4 Flame</li> <li>4.5 Structure of a flame</li> <li>4.6 What is a flame?</li> <li>4.7 Fuel efficiency</li> </ul>  | 5 | Revision in<br>December first |
| Chapter11- CHEMICAL<br>EFFECTS OF ELECTRIC<br>CURRENT   | <ul> <li>11.1 do liquids conduct electricity</li> <li>11.2 chemical effect of electric current</li> <li>11.3 electroplating</li> </ul>  | 5 | week.                         |
| Previous chapter.  Chapter. 2- MICROORGANISMS: FRIEND AND FOE. Chapter 3- COAL AND PETROLEUM. |   |   |                               |

|   |   |   | Nov. / 24 to  |
|---|---|---|---------------|
|   | Annual Exam   |   | January 2024  |
|   |   |   | Revision in   |
|   |   |   | February 2024 |
|   |   |   |               |
| Chapter -5-CONSERVATION OF PLANTS AND ANIMALS | • 5.1 Deforestation and its causes  | 5 |               |
| FLANTS AND ANIMALS                            | <ul> <li>5.2 Consequences of deforestation</li> <li>5.3 Conservation of forest and wildlife</li> </ul>      | S |               |
|   | <ul> <li>5.3 Conservation of forest and whome</li> <li>5.4 Biosphere reserves</li> </ul>                    |   |               |
|   | • 5.5 Flora and fauna   |   |               |
|   | • 5.6 Endemic species   |   |               |
|   | • 5.7 Wildlife sanctuary  |   |               |
|   | • 5.8 National Park   |   |               |
|   | • 5.9 Red data book   |   |               |
|   | • 5.10 Migration  |   |               |
|   | • 5.11 Recycling the paper  |   |               |
|   | • 5.12 Reforestation  |   |               |
| Chapter -7- REACHING THE AGE                  | • 7.1 Adolescence and puberty   |   |               |
| OF ADOLESCENCE.                               | • 7.2 Changes at puberty  |   |               |
|   | • 7.3 Secondary sexual characteristics  |   |               |
|   | • 7.4 Roll of hormones in initiating  | _ |               |
|   | reproductive function   | 5 |               |
|   | • 7.5 Reproductive phase of life in humans  |   |               |
|   | <ul> <li>7.6 how is the sex of a baby determined</li> <li>7.74 moons other than sex hormones</li> </ul>     |   |               |
|   | <ul> <li>7.74 moons other than sex normones</li> <li>7.8 roll of hormones in completing the life</li> </ul> |   |               |
|   | history of insects and frogs  |   |               |
| l   | • 7.9 Reproductive health   |   |               |
| Chapter -12- SOME NATURAL                     |   |   |               |
| PHENOMENA.                                    | • 12.1 Lightening   |   |               |
|   | • 12.2 Charging by Rubbing  |   |               |
|   | • 12.3 Types of charges and their interaction   |   |               |
|   | • 12.4 transfer of charge   |   |               |
|   | • 12.5 The story of lightning   | 4 |               |
|   | • 12.6 Lightning safety   | • |               |
| Chapter. 13- LIGHT                            | • 12.7 Earthquakes  |   |               |
|   | • 13.1 What makes things visible?   |   |               |
|   | • 13.2 Laws of reflection   |   |               |
|   | • 13.3 Regular and diffused reflection  |   |               |
|   | • 13.4 Reflected light can be reflected again   |   |               |
|   | <ul><li>13.5 Multiple images</li><li>13.6 Sunlight white or coloured</li></ul>                              | 5 |               |
|   | • 13.7 What is inside are eyes?   |   |               |
|   | • 13.8 Care of eyes   |   |               |
|   | • 13.9 Visually impaired person can read  |   |               |
| 1   | and write   |   |               |

|   | • 13.10 Watt is the Braille system?  |   |  |
|---|--|---|--|
| EXTRA TOPICS  | Metal and Non Metal<br>Physical Properties of Metal and Non Metal<br>Uses of Metals and Non Metals | 3 |  |
| Previous chapters Chapter. 4- COMBUSTION AND FLAME. Chapter -6-REPRODUCTION IN ANIMALS. |  |   |  |
|   |  |   |  |

| Test Exam     | Syllabus   | Date     |
|---------------|--|----------|
| Pre Mid Term  | Chapter. 1- CROP PRODUCTION AND MANAGEMENT   | 26/06/24 |
|               | Chapter. 8 – FORCE AND PRESSURE<br>Chapter 3- COAL All Topics                                |          |
| Mid Term      | Chapter. 2- MICROORGANISMS: FRIEND<br>AND FOE<br>Chapter. 3 COAL AND PETROLEU                | 12/09/24 |
|               | Chapter -9 – FRICTION Chapter -10- SOUND   | 12/07/24 |
|               | Previous Chapter<br>Chapter. 1- CROP PRODUCTION AND<br>MANAGEMENT                            |          |
|               | Chapter. 3 COAL AND PETROLEUM  |          |
| Post Mid Term | Chapter -6-REPRODUCTION IN ANIMALS.  |          |
|               | Chapter. 4- COMBUSTION AND FLAME Chapter11- CHEMICAL EFFECTS OF ELECTRIC CURRENT             | 05/12/24 |
|               | Previous chapter. Chapter. 2- MICROORGANISMS: FRIEND AND FOE. Chapter 3- COAL AND PETROLEUM. |          |
| Annual Exam   | Chapter -5-CONSERVATION OF PLANTS<br>AND ANIMALS<br>Chapter -7- REACHING THE AGE OF          |          |

| ADOLESCENCE.                        |  |
|-------------------------------------|--|
| Chapter -12- SOME NATURAL           |  |
| PHENOMENA.                          |  |
| Chapter. 13- LIGHT                  |  |
| EXTRA TOPICS                        |  |
| Metal and Non Metal                 |  |
|                                     |  |
| Previous chapters                   |  |
| Chapter. 4- COMBUSTION AND FLAME.   |  |
| Chapter -6-REPRODUCTION IN ANIMALS. |  |
|                                     |  |
|                                     |  |
|                                     |  |
|                                     |  |
|                                     |  |
|                                     |  |
|                                     |  |
|                                     |  |
|                                     |  |
|                                     |  |
|                                     |  |