



An ISO 9001-2000 Certified Organization

## STEREOSCOPY CONTENT LIST

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| Index            |              |                             |          |
|------------------|--------------|-----------------------------|----------|
| Subject          | Total Topics | Total Duration (hr.min.sec) | Page No. |
| <b>BIOLOGY</b>   | 90           | 04.12.17                    | 02       |
| <b>CHEMISTRY</b> | 65           | 03.47.11                    | 06       |
| <b>PHYSICS</b>   | 45           | 02.59.38                    | 09       |
| <b>TOTAL</b>     | <b>200</b>   | <b>10.59.06</b>             |          |



| <b>Biology</b>                                 |                 |
|--|-----------------|
| <b>Topic name</b>                              | <b>Duration</b> |
| 1. <b>Respiratory &amp; circulatory system</b> | 00.02.22        |
| 2. <b>Amoeba</b>                               | 00.01.15        |
| 3. <b>Respiration in plants</b>                | 00.01.41        |
| 4. <b>Algae and Diatoms</b>                    | 00.02.16        |
| 5. <b>Yeast and fungi</b>                      | 00.02.54        |
| 6. <b>Hepatitis B</b>                          | 00.02.56        |
| 7. <b>Virus (Bacteriophages)</b>               | 00.01.07        |
| 8. <b>Eukaryotic cell</b>                      | 00.03.00        |
| 9. <b>Aphids</b>                               | 00.01.24        |
| 10. <b>Detailed digestive system – 2</b>       | 00.01.45        |
| 11. <b>Regeneration among animals</b>          | 00.01.42        |
| 12. <b>Cromatin structure</b>                  | 00.01.38        |
| 13. <b>Structure of DNA</b>                    | 00.02.54        |
| 14. <b>Ozone Layer</b>                         | 00.03.35        |
| 15. <b>Algae</b>                               | 00.04.31        |
| 16. <b>Phylum Cnidaria</b>                     | 00.01.11        |
| 17. <b>Morphology of flower</b>                | 00.03.59        |
| 18. <b>Typical flower</b>                      | 00.04.00        |
| 19. <b>Anatomy of the bone</b>                 | 00.02.31        |
| 20. <b>Circulatory system (Earthworm)</b>      | 00.01.29        |
| 21. <b>Digestive system (Earthworm)</b>        | 00.02.01        |
| 22. <b>Digestive system of cockroach</b>       | 00.02.37        |



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|--|----------|
| <b>23. Neuroglial cells</b>                    | 00.02.02 |
| <b>24. Enzymes</b>                             | 00.01.01 |
| <b>25. Carbohydrates</b>                       | 00.02.23 |
| <b>26. Fats</b>                                | 00.01.06 |
| <b>27. Mitosis</b>                             | 00.03.12 |
| <b>28. Mutation</b>                            | 00.02.26 |
| <b>29. Accessory digestive organs</b>          | 00.03.14 |
| <b>30. Asthma</b>                              | 00.03.24 |
| <b>31. Passive smoking and Bronchitis</b>      | 00.02.29 |
| <b>32. Atherosclerosis (Heart Disease)</b>     | 00.01.55 |
| <b>33. Blood corpuscles (Human Blood)</b>      | 00.03.21 |
| <b>34. Cholesterol</b>                         | 00.03.59 |
| <b>35. Appendicular skeleton</b>               | 00.03.22 |
| <b>36. Girdle Bones</b>                        | 00.02.44 |
| <b>37. Myoglobin</b>                           | 00.01.28 |
| <b>38. Neuromuscular junction</b>              | 00.02.49 |
| <b>39. Osteoporosis</b>                        | 00.03.08 |
| <b>40. Sternum &amp; ribs</b>                  | 00.01.32 |
| <b>41. The Skull</b>                           | 00.01.17 |
| <b>42. Types of muscle fibers</b>              | 00.04.52 |
| <b>43. Vertebral column</b>                    | 00.01.34 |
| <b>44. Impulse transmission</b>                | 00.02.55 |
| <b>45. Alzheimer's disease</b>                 | 00.02.18 |
| <b>46. The role of ATP in active transport</b> | 00.02.16 |
| <b>47. Role of insulin in cell metabolism</b>  | 00.02.13 |
| <b>48. Female reproductive anatomy</b>         | 00.03.28 |



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|---|----------|
| <b>49. Protein synthesis</b>                    | 00.05.38 |
| <b>50. Types of RNA</b>                         | 00.03.40 |
| <b>51. AIDS</b>                                 | 00.02.42 |
| <b>52. Allergy</b>                              | 00.05.02 |
| <b>53. Drug resistance</b>                      | 00.03.42 |
| <b>54. How are antibodies produced?</b>         | 00.01.53 |
| <b>55. Monoclonal antibodies</b>                | 00.03.34 |
| <b>56. Types of vaccines</b>                    | 00.02.32 |
| <b>57. GM crops</b>                             | 00.03.18 |
| <b>58. Somatic hybridization</b>                | 00.02.44 |
| <b>59. Industrial production of enzyme</b>      | 00.04.07 |
| <b>60. Energy flow in ecosystem</b>             | 00.03.46 |
| <b>61. Ultrastructure of kidney</b>             | 00.02.35 |
| <b>62. Cell Structure 2</b>                     | 00.02.33 |
| <b>63. Support in aquatic plants</b>            | 00.01.09 |
| <b>64. Tissue culture</b>                       | 00.03.23 |
| <b>65. Synthesis of m-RNA</b>                   | 00.02.37 |
| <b>66. Internal structure of dicot root</b>     | 00.03.09 |
| <b>67. Adrenal glands</b>                       | 00.03.15 |
| <b>68. Air pollution</b>                        | 00.02.55 |
| <b>69. Areolar tissues</b>                      | 00.02.54 |
| <b>70. Blood transport system</b>               | 00.02.30 |
| <b>71. Caffeine addiction &amp; its affects</b> | 00.03.48 |
| <b>72. Chicken pox</b>                          | 00.03.47 |
| <b>73. Damage caused by UV radiation</b>        | 00.02.41 |
| <b>74. Deficiency disease</b>                   | 00.01.22 |



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|-------------------------------------|-----------------|
| 75. Diarrhoea                       | 00.03.09        |
| 76. Dicot root anatomy              | 00.03.09        |
| 77. Epithelial tissues              | 00.04.37        |
| 78. Food chain                      | 00.02.25        |
| 79. Gene amplification using PCR    | 00.02.50        |
| 80. Heart                           | 00.01.57        |
| 81. High calorie diet & obesity     | 00.03.15        |
| 82. Male reproductive anatomy       | 00.03.55        |
| 83. Monocot root anatomy            | 00.03.03        |
| 84. Mycoplasma & Rickettsia         | 00.03.51        |
| 85. Number & size of cells          | 00.03.35        |
| 86. Osteichthyes & chondrichthyes   | 00.05.22        |
| 87. Photosynthesis                  | 00.02.13        |
| 88. Placenta & foetal haemoglobin   | 00.04.07        |
| 89. Plastic recycling               | 00.02.29        |
| 90. Polio                           | 00.01.48        |
| <b>Total topics in Biology – 90</b> | <b>04.12.17</b> |



| Chemistry                                       |          |
|---|----------|
| Topic name                                      | Duration |
| 1. Conduction of electricity                    | 00.02.37 |
| 2. Physical properties of acids                 | 00.03.37 |
| 3. Preparation of oxygen from hydrogen peroxide | 00.01.14 |
| 4. Destructive distillation of coal             | 00.02.46 |
| 5. Methane                                      | 00.01.55 |
| 6. Preparation of carbon dioxide                | 00.01.49 |
| 7. Preparation of colloidal solution - I        | 00.04.22 |
| 8. Neutralization                               | 00.03.11 |
| 9. Reaction of metal carbonates with acid       | 00.02.21 |
| 10. Reaction of metal oxides with acid          | 00.01.28 |
| 11. Addition reactions of alkenes               | 00.03.26 |
| 12. Atomic radius                               | 00.05.12 |
| 13. Orbits and Orbitals                         | 00.06.16 |
| 14. Electron affinity                           | 00.03.56 |
| 15. Chemical bonding                            | 00.04.13 |
| 16. Hydrogen bonding                            | 00.06.15 |
| 17. Types of van der waals forces               | 00.05.11 |
| 18. Vapour pressure of a solvent                | 00.01.59 |
| 19. Redox reaction                              | 00.05.31 |
| 20. Standard hydrogen electrode                 | 00.01.35 |
| 21. Physical properties of alkali metals        | 00.03.50 |
| 22. Fullerenes                                  | 00.01.23 |



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|---|----------|
| 23. Acylation of Benzene (Friedel-Crafts acylation)                 | 00.01.31 |
| 24. Alkylation of Benzene (Friedel-Crafts alkylation)               | 00.02.19 |
| 25. Chlorination of benzene   | 00.01.57 |
| 26. Geometrical and Optical isomerism in complex compounds          | 00.04.16 |
| 27. Geometrical isomerism in hydrocarbons                           | 00.05.36 |
| 28. Heat of hydrogenation and Resonance in benzene                  | 00.06.09 |
| 29. Nitration of Benzene  | 00.02.09 |
| 30. Sulphonation of Benzene   | 00.02.22 |
| 31. Diene compounds   | 00.01.28 |
| 32. Applications of electrolysis (Part - I)                         | 00.04.04 |
| 33. Factors affecting the products of electrolysis (Part - II)      | 00.06.09 |
| 34. Use of standard hydrogen electrode as an anode                  | 00.06.00 |
| 35. Compounds of phosphorous  | 00.00.59 |
| 36. Coordination number and Geometry of complexes                   | 00.02.41 |
| 37. Sp <sup>3</sup> d <sup>2</sup> hybridization in SF <sub>6</sub> | 00.01.28 |
| 38. Addition polymerization (Free radical polymerization)           | 00.03.07 |
| 39. Ionic addition polymerization                                   | 00.03.59 |
| 40. Tacticity of polymer  | 00.03.10 |
| 41. Chirality and molecular asymmetry                               | 00.03.05 |
| 42. Hybridization of atomic orbitals                                | 00.03.10 |
| 43. Electrode potential and Standard electrode potential            | 00.04.39 |
| 44. Laboratory preparation of chlorine                              | 00.01.56 |
| 45. Catalytic converter   | 00.06.19 |
| 46. Difference between diamond and graphite                         | 00.04.39 |
| 47. Van der Waals forces  | 00.03.52 |
| 48. The colour of transition metal ion complexes-I                  | 00.05.48 |



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|--|-----------------|
| <b>49. Laboratory preparation of oxygen</b>                                      | <b>00.03.00</b> |
| <b>50. Physical properties of ammonia</b>  | <b>00.02.29</b> |
| <b>51. Laboratory preparation of hydrogen</b>                                    | <b>00.01.31</b> |
| <b>52. Factors affecting the magnitude of electron affinity</b>                  | <b>00.05.08</b> |
| <b>53. Crystal hydrate</b>   | <b>00.03.52</b> |
| <b>54. Potassium dichromate as an oxidizing agent</b>                            | <b>00.03.15</b> |
| <b>55. Types of covalent bond and Lewis representation</b>                       | <b>00.03.18</b> |
| <b>56. Laboratory preparation and properties of phenol</b>                       | <b>00.03.00</b> |
| <b>57. Allotropic forms of phosphorous</b>                                       | <b>00.03.57</b> |
| <b>58. Chemical properties of phosphorous</b>                                    | <b>00.03.32</b> |
| <b>59. Coordination addition polymerization (through Ziegler-Natta catalyst)</b> | <b>00.03.54</b> |
| <b>60. Valency</b>   | <b>00.06.07</b> |
| <b>61. Water as a solvent</b>  | <b>00.05.10</b> |
| <b>62. Law of definite proportions or constant composition</b>                   | <b>00.05.00</b> |
| <b>63. Polyatomic ions</b>   | <b>00.01.50</b> |
| <b>64. Chemical properties of carbon</b>   | <b>00.02.09</b> |
| <b>65. Preparation of amines</b>   | <b>00.03.00</b> |
| <b>Total topics in Chemistry – 65</b>  | <b>03.47.11</b> |



| Physics   |          |
|---|----------|
| Topic name                                      | Duration |
| 1. Density                                      | 00.05.07 |
| 2. Reflection of light and its laws             | 00.04.07 |
| 3. Molecular theory of magnetism                | 00.03.58 |
| 4. Sound  | 00.03.51 |
| 5. Electroplating                               | 00.02.50 |
| 6. Dispersion of white light                    | 00.02.45 |
| 7. Projector                                    | 00.06.38 |
| 8. Fleming's left hand rule                     | 00.02.29 |
| 9. Magnetic relay                               | 00.03.57 |
| 10. Reed switch                                 | 00.03.28 |
| 11. Van - de - graaff - generator               | 00.04.24 |
| 12. Lenz's law                                  | 00.03.59 |
| 13. Compound microscope                         | 00.03.37 |
| 14. Prism spectrometer                          | 00.03.53 |
| 15. Applications of laser - I (CD player)       | 00.02.41 |
| 16. Applications of laser - II (Barcode reader) | 00.02.17 |
| 17. Alpha emission                              | 00.05.01 |
| 18. Electric charge                             | 00.05.19 |
| 19. Gauss's Theorem -1                          | 00.04.01 |
| 20. Gauss's Theorem -2                          | 00.03.13 |
| 21. Application of Gauss's Theorem - 1          | 00.03.53 |
| 22. Inertia                                     | 00.03.46 |



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|--|-----------------|
| 23. Pn Junction diode – 1                  | 00.03.33        |
| 24. Pn Junction diode –2                   | 00.04.24        |
| 25. Volume of liquids                      | 00.02.48        |
| 26. Intrinsic semiconductor                | 00.03.04        |
| 27. Motion of charge in magnetic field – 1 | 00.04.13        |
| 28. Motion of charge in magnetic field – 2 | 00.05.01        |
| 29. Periscope                              | 00.05.41        |
| 30. Extrinsic semiconductor – 1            | 00.03.36        |
| 31. Extrinsic semiconductor – 2            | 00.03.15        |
| 32. Propagation of sound                   | 00.02.43        |
| 33. Kinetic theory of matter (Solids)      | 00.06.16        |
| 34. Rolling and sliding friction           | 00.04.09        |
| 35. Application of Bernoulli's principle   | 00.04.01        |
| 36. Force – Push or pull                   | 00.02.21        |
| 37. Bulb connected to cell                 | 00.03.49        |
| 38. Terms related to curved mirrors        | 00.03.22        |
| 39. Refraction of light through prism      | 00.04.54        |
| 40. Electric field – 1                     | 00.04.01        |
| 41. Electric field – 2                     | 00.03.13        |
| 42. Millikan's oil drop experiment         | 00.06.44        |
| 43. Light                                  | 00.04.31        |
| 44. Application of Gauss' Theorem – 2      | 00.06.46        |
| 45. Solar system                           | 00.01.59        |
| <b>Total topics in Physics – 45</b>        | <b>02.59.38</b> |
|  |                 |
| <b>Total topics – 200</b>                  | <b>10.59.06</b> |

