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|  |  | Lesson Plan |
| **Name of the Faculty** | **: Surender Soni** |
| **Discipline** | **: MLT** |
| **Year** | **: 1st** |
| **Subject** | **: ANATOMY AND PHYSIOLOGY** |

**Lesson Plan Duration** **: 30 Weeks (from July-2018 to -May 2019)**

**Work Load (Lecture/Practical) per week (n hours): Lecture= 03, Practical=2**

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| Week | Theory |  | Practical |  |
|  |  |  |  |  |  |
|  |  | Lecture | Topic | Practical | Topic |
|  |  | Day | (including assignment / test) | Day |  |

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| --- | --- | --- | --- | --- |
| 1 | 1 | Introduction Human Body | 1 | Introduction of human body |
| 2 | Structure and functions of animal cell |
| 3 | Do |
| 2 | 4 | Various definitions related to anatomy and physiology. | 2 | Study of tissue. |
| 5 | Assignment and test |
| 6 | Introduction to different types of tissue |
| 3 | 7 | Epithelial tissue, structure and function | 3 | Study of different types of Tissue. |
| 8 | Nervous tissue, structure and function |
| 9 | Connective tissue, structure and function |
| 4 | 10 | Muscular tissue, structure and function | 4 | Internal structure of Bone. |
| 11 | Bone & Cartilage, structure and function |
| 12 | Assignment and test |
| 5 | 13 | Structure and function of Skin | 5 | Study of different parts of skin. |
| 14 | Accessory organs of Skin |
| 15 | Assignment and test |
| 6 | 16 | Introduction to skeleton system and various parts | 6 | Study of various Bones. |
| 17 | Classification of bones and their structure |
| 18 | Do |
| 7 | 19 | Joints and their classification | 7 | Study of various Joints |
| 20 | Major Joints of Body |
| 21 | Assignment and test |
| 8 | 22 | Introduction to digestive system and various organs of digestion | 8 | Study of Stomach and small intestine. |
| 23 | Structure and function of stomach |
| 24 | Structure and function of small intestine |
| 9 | 25 | Structure and function of Liver | 9 | Study of Liver through demonstration |
| 26 | Structure and function of Pancreas |
| 27 | Structure and function of salivary gland |
| 10 | 28 | Process of digestion and absoprption | 10 | Study of Digestive System and its process.. |
| 29 | Classification of vitamins and their role in body |
| 30 | Classification of minerals and their role in body |
| 11 | 31 | Assignment and test | 11 | Study of Respiratory system throughdemonstration |
| 32 | Introduction to Respiratory system and its various parts |
| 33 | Structure of lungs, trachea, alveoli, histology of all |
| 12 | 34 | Respiration ,its classification and mechanism | 12 | Study of various parts of Excretory System. |
| 35 | Gaseous exchange in the body |
| 36 | Regulation of respiration, BMR |
| 13 | 37 | Various volumes and capacities related to respiration | 13 | Study of Kidneys, ureter and urinary bladderthrough demonstration |
| 38 | Assignment and test |
| 39 | Introduction to Excretory System, its organs |
| 14 | 40 | Structure of Kidneys, ureter and urinary bladder | 14 | . Structure of nephron |
| 41 | Structure of nephron |
| 42 | Formation of urine and its Composition |
| 15 | 43 | Assignment and Test | 15 | Revision of practicals. |
| 44 | Revision |
| 45 | Revision |
| 16 | 46 | Introduction to CNS | 16 | Study of various parts of nervous system (brain and spinal cord) (demonstrationfrom model) |
| 47 | Brain |
| 48 | Spinal Cord |
| 17 | 49 | PNS Introduction | 17 | Study of various parts of nervous system (brain and spinal cord) (demonstrationfrom model) |
| 50 | Spinal nerves |
| 51 | Cranial Nerves |
| 18 | 52 | Sense organs (Eye ear) | 18 | Study of structure of eye and ear (demonstration from models) |
| 53 | Tongue and nose |
| 54 | Test and Assignmet |
| 19 | 55 | Inrtroduction to muscular system | 19 | Study of structure of eye and ear (demonstration from models) |
| 56 | Various type of muscles |
| 57 | Various type of muscles |
| 20 | 58 | Various type of muscles | 20 | Study of structural differences between skeletal, smooth and cardiac muscles(permanent mounts) through demonstration. |
| 59 | Muscle fatigue |
| 60 | Introduction to circulatory system |
| 21 | 61 | Composition of blood | 21 | Study of structural differences between skeletal, smooth and cardiac muscles(permanent mounts) through demonstration. |
| 62 | Anatomy & phy. of Heart |
| 63 | Anatomy & phy. of Heart |
| 22 | 64 | Circulation of blood | 22 | Study of various parts of circulatory system through demonstration. |
| 65 | Cardiac cycle |
| 66 | Conduction system of heart |
| 23 | 67 | Blood pressure | 23 | Study of various parts of circulatory system through demonstration. |
| 68 | Arteries and veins |
| 69 | Lymph and lymphatic system |
| 24 | 70 | Revision | 24 | Examination of stained blood film for blood cells |
| 71 | Revision |
| 72 | Assignment |
| 25 | 73 | Test | 25 | Examination of stained blood film for blood cells |
| 74 | Introduction of endocrine system |
| 75 | Various glands Peneal gland, Hypothalamus |
| 26 | 76 | Pitutary gland, Salivary gland, | 26 | Estimation of blood pressure |
| 77 | Parathyroid, |
| 78 | Ovary-testostron gland |
| 27 | 79 | Adrinal gland | 27 | Estimation of blood pressure |
| 80 | Pancreas |
| 81 | Thymus |
| 28 | 82 | Revision of endocrine system | 28 | Study of various parts of reproductive system (male and female demonstrationfrom models and charts) |
| 83 | Introduction to reproductive system |
| 84 | Male reproductive system |
| 29 | 85 | Female reproductive system | 29 | Study of various parts of reproductive system (male and female demonstrationfrom models and charts) |
| 86 | Ovarian cycle |
| 87 | Ovulation |
| 30 | 88 | Fertilization | 30 | Study of various parts of reproductive system (male and female demonstrationfrom models and charts) |
| 89 | Revision of reproductive system |
| 90 | Test of endocrine and reproductive system |