

LESSON PLAN

| Name of Faculty | | Riya | |
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| Discipline: | | DIPLOMA IN PHARMACY | |
| Semester/Year | | 1 ST Year | |
| Subject/Code: | | HAP (ER20-24T/ 24P) | |
| Lesson Plan duration: | | 28 Weeks (2023-24) | |
| Work load (lecture/Practical) per week (in Hours) | | | |
| THEORY | | | PRACTICAL (ER20-24P) |
| WEEK | Lecture Day | Topic (including assignment/Test) | Practical Day |
| 1 st | 1 st | scope of anatomy and physiology | 1 st |
| | 2 nd | Definition of various terminology | |
| | 3 rd | Revision | |
| 2 nd | 1 st | Components of cell | 2 nd |
| | 2 nd | Structure of cell | |
| | 3 rd | Functions of cell | |
| 3 rd | 1 st | Types of tissues | 3 rd |
| | 2 nd | Sub types of tissues | |
| | 3 rd | Characteristics of tissues | |
| 4 th | 1 st | Compositions and functions of blood | 4 th |
| | 2 nd | Process of hemopoiesis | |
| | 3 rd | Characteristic and fuctions of RBCs, WBCs, and platelets | |
| 5 th | 1 st | Revision | 5 th |
| | 2 nd | Mech. of blood clotting | |
| | 3 rd | Importance of Blood groups | |
| 6 th | 1 st | Lymph and lymphatic system | 6 th |
| | 2 nd | Composition, function and formation of lymph | |
| | 3 rd | Structure and function of spleen | |
| 7 th | 1 st | Structure and function of lymph node | 7 th |
| | 2 nd | Revision | |
| | | | Study of compound microscope. |
| | | | General technique for the collection of blood. |
| | | | Microscopic examination of Epithelial tissue, Cardiac muscle, Smooth muscle, Skeletal muscle, Connective tissue, and Nervous tissue of ready/ pre-prepared slides. |
| | | | Revision |
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| | | | Study of human skeleton-Axial skelton and appendicular skeleton. |
| | | | Detemination of A. Blood group |

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| | 3 rd | Anatomy and physiology of heart | | B. ESR C. Haemoglobin content of blood D. Bleeding time and Clotting time |
| 8 th | 1 st 2 nd 3 rd | Blood vessels and circulation Cardiac cycle and heart sound Basics of ECG | 8 th | Determination of WBC count of blood. |
| 9 th | 1 st 2 nd 3 rd | Blood pressure and its regulation Revision Anatomy of respiratory organs and their functions | 9 th | Determination of RBC count of blood. |
| 10 th | 1 st 2 nd 3 rd | Regulation, and mech of respiration Respiratory volumes and capacities revision | 10 th | Determination of Differential count of blood. |
| 11 th | | 1st Sessional Exam. | 11 th | Revision |
| 12 th | 1 st 2 nd 3 rd | Anatomy and physiology of GIT Anatomy and functions of accessory glands Physiology of digestion and absorption | 12 th | Revision |
| 13 th | 1 st 2 nd 3 rd | Revision Histology of skeletal muscles Physiology of muscle contraction | 13 th | Recording of blood pressure in various postures, different arms, before and after exertion and interpreting the results. |
| 14 th | 1 st 2 nd 3 rd | Disorder of skeletal muscles Revision Classification of nervous system | 14 th | Revision |
| 15 th | 1 st 2 nd 3 rd | Anatomy and physiology of cerebrum , cerebellum, mid brain Function of hypothalamus, medulla , basal ganglia Spinal cord structure and reflexes | 15 th | Revision |
| 16 th | 1 st 2 nd 3 rd | Names and function of cranial nerves Anatomy and physiology of sympathetic and parasympathetic nervous system revision | 16 th | Recording of body temperature (using mercury, digital and IR thermometers at various locations), Pulse rate/Heart rate (at various locations in the body, before and after exertion), Respiratory Rate |

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| 17 th | 1 st 2 nd 3 rd | Anatomy and physiology of eye Anatomy and physiology of ear Anatomy and physiology of skin | 17 th | Recording Pulse Oxygen (before and after exertion) |
| 18 th | 1 st 2 nd 3 rd | Anatomy and physiology of tongue Anatomy and physiology of nose revision | 18 th | Recording force of air expelled using Peak Flow Meter |
| 19 th | 1 st 2 nd 3 rd | Anatomy and physiology of urinary system Physiology of urine formation Renin- angiotensin system | 19 th | Revision |
| 20 th | 1 st 2 nd 3 rd | Clearance tests and micturition Revision Pituitary gland | 20 th | Measurement of height, weight, and BMI |
| 21 st | 1 st 2 nd 3 rd | Adrenal gland Thyroid gland Parathyroid gland | 21 st | Study of various systems and organs with the help of chart, models, and specimens A. Cardiovascular system B. Respiratory system C. Digestive system D. Urinary system E. Endocrine system F. Reproductive system G. Nervous system H. Eye I. Ear J. skin |

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| 22 nd | 1 st 2 nd 3 rd | Pancreas Gonads revision | 22 nd | revision |
| 23 rd | | Winter Vacations | | |
| 24 th | 1 st 2 nd 3 rd | Revision Revision Revision | | |
| 25 th | | Second Sessional Exam. (Tentative) | | |
| 26 th | 1 st 2 nd 3 rd | Anatomy of male reproductive system Anatomy of female reproductive system Physiology of menstruation | | |
| 27 th | 1 st 2 nd 3 rd | Spermatogenesis Oogenesis pregnancy | | |
| 28 th | 1 st 2 nd 3 rd | Parturition Revision Revision | | |

