Lesson Plan

Name of the Faculty : Riya

Discipline : Medical Lab Technology

Year : Second Year

Subject : Clinical Biochemistry

Lesson Plan : 17 weeks

Work load (lecture/practical) per week (in hours) : Lectures-03, Practical-06

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| Week | Theory | Practical |
|  | Lecture Day  | Date  | Topic (including assignment + test) | Practical Day (3 hours each day \* 2 days in week) | Topic  |
| 1  | 1st  |  | Serum Bilirubin-Formation of bile pigments | 1st | Serum bilirubin estimation G1  |
| 2nd  |  | Formation and excretion of bilirubin  |
| 3rd |  | Conjugated and unconjugated bilirubin | 2nd | Serum bilirubin estimation G2 |
| 2 | 4th  |  | Principle and procedures of serum bilirubin estimation (Direct & Indirect)  | 3rd |  Phosphorus estimation G1 |
| 5th |  | Reference values  | 4th | Phosphorus estimation G2 |
| 6th |  | Clinical significance |
| 3 | 7th |  | Test | 5th | Calcium estimation G1 |
| 8th |  | Principle and procedures of estimation of SGOT & SPGT |
| 9th |  | Reference values , Clinical significance | 6th | Calcium estimation G2 |
| 4 | 10th |  | Test | 7th | Renal clearance tests G1 |
| 11th |  | Principle and procedures of estimation of ALP & ACP |
| 12th |  | Reference values , Clinical significance | 8th | Renal clearance tests G2 |
| 5 | 13th |  | SEMINAR | 9th | SEMINAR, QUIZ |
| 14th |  | Principle and procedures of estimation of serum amylase |
| 15th |  | Reference values , Clinical significance of serum amylase | 10th |  |
| 6 | 16th |  | Test | 11th | SGOT estimation G1 |
| 17th |  | Principle and procedures of estimation of Serum Calcium and Phosphorus |
| 18th |  | Reference values , Clinical significance of Serum Calcium and Phosphorus | 12th | SGOT estimation G2 |
| 7 | 19th |  | Continued | 13th14th |  |
| 20th |  | Formation of cholesterol | SEMINAR, QUIZ |
| 21th |  | High density and low density cholestero |
| 8 | 22th |  | Principles and procedures of estimation of lipid | 15th | SGPT estimation G1 |
| 23th  |  | Reference value of lipid |
| 24th  |  | Clinical significance of lipid | 16th | Viva voce |
| 9 | 25th |  | Triglycerides, principle and procedure of estimation of lipid | 17th | SGPT estimation G2 |
| 26th |  | Importance of various ratios of HDL, LDL and VLDL |
| 27th |  | Continued | 18th |  |
| 10 | 28th |  | Test | 19th | SEMINAR, QUIZ |
| 29th |  | Introduction of Urinary proteins & creatnine  |
| 30th |  | 24 hr. urinary proteins and creatnine estimation | 20th | ALP estimation G1 |
| 11 | 31th |  | Continued | 21th |  |
| 32th |  | Reference values of Urinary Proteins and Creatnine |
| 33th  |  | Clinical significance of Urinary Proteins and Creatnine | 22th | ALP estimation G2 |
| 12 | 34th |  | Continued |  |
| 35th |  | Test | 23th | ACP estimation G1 |
| 36th |  | Revision  |
| 13 | 37th |  | Test |  |
| 38th |  | Introduction of Renal Function Tests (Renal clearance Tests) | 24th  | ACP estimation G2 |
| 39th |  | Urea clearance Test | 25th  | Viva voce |
| 14 | 40th |  | Continued | 26th  | Total cholesterol estimation G1 |
| 41th  |  | Revision  |
| 42th |  | Creatnine clearance test | 27th  |  |
| 15 | 43th |  | Continued | 28th  | Total cholesterol estimation G2 |
| 44th |  | Test |
| 45th |  | Revision | 29th  | Viva voce |
| 16 | 46th |  | Their Clinical significance | 30th  | Triglyceride estimation G1 |
| 47th |  | Continued |
| 48th |  | Test | 31th  | Triglyceride estimation G2 |
| 17 | 49th |  | Revision | 32th  | Estimation of HDL and calculation of VLDL and LDL G1 |
| 50th |  | Revision |
| 51th |  | Revision | 33th  | Estimation of HDL and calculation of VLDL and LDL G2 |