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 | | 13th  14th |  |
| 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 |