**LESSON PLAN**

**NAME OF FACULTY** : Surender Soni

**DISCIPLINE** : DMLT

**SEMESTER** : 3rd

**SUBJECT** : Clinical Biochemistry III

**LESSON PLAN DURATION** : 15 Weeks (from July , 2018 to Nov, 2018)

**Work Load Per week** : Lectures- 3, Practical -3

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| **WEEK** | **THEORY** | | **PRACTICAL** | |
|  | **LECTURE DAY** | **TOPIC (ASSINGNMET/TEST)** | **PRACTICAL DAY**  **(Each day for 3 hours)** | **TOPIC** |
| 1st | 1 | Formation of bile pigments | 1st | Serum bilirubin estimation |
| 2 | Formation and excretion of bilirubin |
| 3 | Conjugated and unconjugated bilirubin |
| 2nd | 4 | Principle and procedures of serum bilirubin estimation (Direct & Indirect) | 2nd | Phosphorus estimation |
| 5 | Reference values  Clinical significance |
| 6 | Revision |
| 3rd | 7 | SGOT and SGPT introduction | 3rd | Calcium estimation |
| 8 | Principle and procedures of estimation SGOT |
| 9 | Principle and procedures of estimation SGPT |
| 4th | 10 | Reference values  Clinical significance | 4th | Renal clearance tests |
| 11 | Revision |
| 12 | Assignment and Test of unit 1 and 2 |
| 5th | 13 | ALP and ACP introduction. | 5th | SGOT estimation |
| 14 | Principle and procedures of estimation ALP |
| 15 | Principle and procedures of estimation ACP |
| 6th | 16 | Reference values Clinical significance |  | SGPT estimation |
| 17 | Revision |
| 18 | Serum Amylase Introduction |
| 7th | 19 | Principle and procedures of estimation | 7th | ALP estimation |
| 20 | Reference values  Clinical significance |
| 21 | Serum Calcium and Phosphorus introduction |
| 8th | 22 | Principle and procedures of estimation | 8th | ACP estimation |
| 23 | Reference values  Clinical significance |
| 24 | Revision |
| 9th | 25 | Test and Assignment | 9th | Total cholesterol estimation |
| 26 | Lipid Profile Introduction |
| 27 | Formation of cholesterol  High density and low density cholesterol |
| 10th | 28 | Principles and procedures of estimation | 10th | Total cholesterol estimation |
| 29 | Reference value Clinical significance |
| 30 | Triglycerides, principle and procedure of estimation |
| 11th | 31 | Importance of various ratios of HDL | 11th | Triglyceride estimation |
| 32 | Importance of various ratios of LDL |
| 33 | Importance of various ratios of VLDL |
| 12th | 34 | Revision | 12th | Estimation of HDL and calculation of VLDL and LDL |
| 35 | Urinary Proteins and Creatnine |
| 36 | 24 hr. urinary proteins and creatnine estimation |
| 13th | 37 | Reference values Clinical significance | 13th | Estimation of HDL and calculation of VLDL and LDL |
| 38 | Revision |
| 39 | Renal Function Tests (Renal clearance Tests) Inroduction |
| 14th | 40 | Renal clearance Tests | 14th | Urinary protein and creatinine estimation ( 24 hr) |
| 41 | Urea clearance Test |
| 42 | Creatnine clearance test |
| 15th | 43 | Clinical significance | 15th | Estimation of serum amylase |
| 44 | Revision |
| 45 | Test And Assignment |