CLS 417 Clinical Practice in Microbiology

• INSTRUCTOR
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CLS 417 Clinical Practice in Microbiology

- **BOOKS:**
  
  District Laboratory Practice in Tropical Countries. Part 2. by Monica Cheesbrough.
CLS 417 Clinical Practice in Microbiology

• COURSE ASSESSMENT    Total of 100%

1. Theory Part:    Total of 70%
• First Midterm Exam : 15%
• Second Midterm Exam : 15%
• Final Theoretical Exam : 40%

2. Practical Part:   Total of 30%
• Lab Reports: 10%
• Final Practical Exam: 20%
Laboratory

Safety 101:

• Always wear lab coat
• Always wear gloves when contact with contaminants
• Never eat or drink
• Closed shoes
• Never leave personal items on benches
• Always wash your hands before leaving the lab.
1. **Introduction:** Specimen Requisition, Rejection Criteria, Critical Values.

2. **Urine Analysis:** Urine specimens types, collection, processing.

3. **Urine Culture:** processing, pathogens isolated, sterile pyuria.

4. **Blood Culture:** indications, collection, Manual / Automated processing

5. **Sputum culture:** indications, collection, routine processing.

6. **Tb Lab:** Culture, staining, automated methods + Antimycobacterial susceptibility testing
6. **Stools specimens**: indications for culture, pathogens isolated from faecal specimens.

7. **Stools for culture**: Isolation and identification of different organisms.

8. **Parasitology lab**: most commonly isolated.


10. **Serology lab**: Widal, CFT, ASO, Syphilis tests, Pregnancy test, TORCH, organ transplant, matching(MHC)& FC.

11. **Virology Lab**: Tissue culture types, CPE, CPE / EIA / Immunofluorescence.

12. **Mycology lab**: Rapid review in diagnosis of common fungal infections, microscopic examination and culture of specimens in Mycology.