OPERATION THEATRE TECHNIQUES PART-I

MICROBIOLOGY

- 1. Introduction to micro-organisms
- 2. Classification of Bacteria
- 3. Structure and reproduction of bacteria
- 4. Characteristic of Rickettsiae
- 5. Transmission and diseases caused by Rickettsiae
- 6. Prevention and control of Rickettsiae
- 7. Characteristic of Chlamydiae
- 8. Transmission and diseases caused by Chlamydiae
- 9. Treatment, prevention and control
- 10. Characteristics of Spirochetes
- 11. Transmission, prevention and control
- 12. Diseases caused by Spirochetes
- 13. Composition and structure of Virus
- 14. Classification of Virus
- 15. Mode of Transmission and common diseases caused by Virus
- 16. Prevention and control
- 17. Characteristics of Protozoa
- 18. Biology and diseases caused by Protozoa
- 19. Prevention and control
- 20. Characteristics and reproduction of Fungi
- 21. Diseases caused by Fungi with reference to O.T.
- 22. Control and prevention
- 23. Sterilization and disinfection
- 24. Introduction to chemotherapy
- 25. Characteristics and use of chemotherapeutic agents in O.T.
- 26. Introduction to Immunity and Immunology
- 27. Acquired Immunity and resistance factors
- 28. Methods of environmental cleanliness in O.T.
- 29. How to keep instruments, equipments and other things bacteria free

STERILIZATION AND SUPPLIES

- 1. Introduction to sterilization
- 2. Sterilization and Disinfections
- 3. General Principles of sterilization
- 4. Types of Sterilizations
- 5. Methods of Heat Sterilization and equipment.
- 6. Autoclave, main parts and working principle.
- 7. Chemical Sterilization and the chemical used in it.
- 8. Sterilization by radiation.
- Detergents, types and uses.
- 10. Gas Sterilization and its uses.
- 11. Scrubbing and its methods
- 12. Draping and its methods.

- 13. Lighting and ventilation requirements.
- 14. Humidity and heating requirements.
- 15. Blood Transfusion:- Blood storage, grouping, cross matching etc.
- 16. Infusion.

O. T. EQUIPMENT

- 1. Introduction to electro-medical equipment used in O.T.
- 2. O.T. light, uses, types, lamps etc
- 3. Shadow less lighting features, types
- 4. Direct, semi direct, indirect lighting.
- 5. Grounding system parts and structure.
- 6. Monitoring equipment such as cardiac monitors.
- 7. Defibrillators
- 8. Surgical diathermy structure, block diagram, types.
- 9. Safety Precautions
- 10. General equipment maintenance requirements
- 11. Anesthesia machine parts, block diagram etc.
- 12. Sterilizers, types and characteristics