



# Jharkhand State Paramedical Council

RIMS Campus, Bariatu, RANCHI 834009

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## Certificate Course in Dresser

Theory Paper (50 Marks )

### Part A (25 Marks)

1. Basic concept of
  - (i) Cells and its organelles
  - (ii) Basic anatomy and Position of body parts
  - (iii) Cardiovascular System
  - (iv) Digestive System
  - (v) Excretory System
  - (vi) Reproductive system
  - (vii) Musculo skeletal System
2. Biochemistry
  - (a) Chemical Structure Function and metabolism of
    - (i) Carbohydrate
    - (ii) Proteins
    - (iii) lipids
  - (b) Enzymes
    - (i) Definition and general characteristics
    - (ii) Nomenclature and classification
    - (iii) Factors affecting enzyme activity
    - (iv) Enzymes Patterns in disease
  - (c) Vitamins and Minerals  
Sources, Daily requirement, metabolism functions and deficiency diseases of
    - (i) Fat soluble vitamins (A, D, E, K)
    - (ii) Water soluble vitamin ( B complex)
  - (d) Acid base balance, water and electrolyte balance
  - (e) Biochemical tests
    - (i) Blood sugar
    - (ii) Blood urea
    - (iii) Serum bilirubin
    - (iv) Serum cholesterol
3. Pathology
  - (i) Inflammation
  - (ii) wound healing
  - (iii) Neoplasia
  - (iv) Pathological tests for



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- . Urine
- . Stool
- . Sputum
- (v) Gangrene
- (vi) Thrombosis
- (vii) Ulcer
- (viii) Abscess
- 4. Microbiology
  - (i) Sterilisation and disinfection
  - (ii) Basic concept of bacteria, virus and fungus
  - (iii) Pathology, treatment and epidemiology of diseases caused by bacteria virus and fungus
  - (iv) Collection and Labeling of Specimens
- 5. Pharmacology
  - (i) General Principles of pharmacology
    - (a) Doses
    - (b) forms
    - (c) Prescription writing
  - (ii) Nature of drug and its administration
  - (iii) Common drug used : Indication contraindication and adverse effect of
    - (a) Analgesics
    - (b) Antibiotics
    - (c) Antifungal
    - (d) Antiviral
    - (e) Antitubercular
    - (f) Drugs used in acute emergence

## **Part B (25 Marks)**

1. Recording of temperature, Pulse, respiration and blood pressure
  2. Injection – Routes and Process (IM / IV)
  3. I V cannulisation
  4. Fluid & blood transfusion
  5. Wound clearing and Bandaging
  6. First aid and emergency care
  7. Administration of enema
  8. Basic knowledge and management of
    - (i) Hemorrhage
    - (ii) Burn
- 



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- (iii) Electric Shuck
- (iv) unconsciousness
- (v) Drowning
- (vi) Snake Bite / Scorpion Bite / Bee Bite / Dog Bite
- (v) Abdominal Pain / colic
- (vi) Constipation
- (vii) Mouth ulcer/ Toothache
- (ix) Sunstroke
- (x) Epilepsy
- (xi) Fever / Common cold
- (xii) Headache
- (xiii) Cough / Asthma
- (xvi) Conjunctivitis
- (xv) Night blindness

### Practical (100 Marks)

1. Identification and used of Common Surgical instrument eg.
  - (i) Scissors
  - (ii) Clamps
  - (iii) Needle Holder
  - (iv) Catheter
  - (v) Clip applicator
  - (vi) Forceps
2. Operative Procedure and Technique
3. Dressing

VIVA :- (50 MARKS)