

Prakash Shikshan Mandal's

PRAKASH INSTITUTE OF MEDICAL SCIENCES & RESEARCH

URUN-ISLAMPUR



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ANNEXURE 1

Pathology, Microbiology, Biochemistry

Department Of Pathology

| Sr.No. | NAME OF THE ITEMS | Qty. |
|------------|--|------|
| (A) | General | |
| 1 | Desktop Computers with High Speed Internet, | 14 |
| | Laser Black & White Heavy duty Laser Printers, | 1 |
| | Color Inkjet Printers, | 1 |
| | Scanners, Photocopy (Xerox) Machines, Telephone with STD facility, Fax Machine etc. Every faculty & Resident must have separate | 1 |
| | Desktop/Laptop with high speed Internet facility. | 1 |
| | Office table small and big, office chairs; museum almirahs; study table, staff room, and library almirahs, stock almirahs, , lockers with coat hangers and drawers as required. Laboratory benches with cupboards and rack for reagent bottles, water, gas and electric points, operation tables etc. as necessary. store room racks | 1 |
| (B) | Morbid Histology and Morbid Anatomy | |
| 2 | Specimen identification solution | 1 |
| 3 | Weighing machine for cadavers (300 Kg.) | 1 |
| 4 | Manual Rotary Microtome | 2 |
| 5 | Automated Rotary Microtome | 1 |
| 6 | Cryostat | 1 |
| 7 | Hot plate | 2 |
| 8 | Paraffin embedding bath | 2 |
| 9 | Heated Paraffin Embedding Module | 2 |
| 10 | Cold Plate for Modular Tissue Embedding System | 1 |
| 11 | Automated Tissue Processor –Histokinette | 2 |
| 12 | Autoclave | 2 |
| 13 | Ultrapure water solutions - Distilled water plant | 1 |



| | | |
|----|---|----|
| 14 | Water bath | |
| 5 | Centrifuge machine | |
| 16 | Cabinet for slides | 6 |
| 17 | Autopsy tables | 2 |
| 18 | Digital SLR at least 20 megapixel with micro, macro, wide angle zoom lenses, Flash and other accessories | 1 |
| 19 | Digital Automatic camera > 5 megapixel | 1 |
| 20 | Fully Automated high throughput Multi-Stainer Workstation | 1 |
| 21 | Fully Automated Embedding System (Heated embedding module & cold plate) | 1 |
| 22 | Fully Automated Flexible Coverslipping Workstation | 1 |
| 23 | Standalone paraffin dispensing module cold plate holding more than 100 cassettes | 1 |
| 24 | Stand alone cold plate | 1 |
| 25 | Troughs for staining | 18 |
| 26 | Coplin jars | 24 |
| 27 | Water bath (Tissue Floatation) | 2 |
| 28 | Single Pan Digital Balance, Chemical | 2 |
| 29 | Balance, chemical with weights | 2 |
| | Microscopes | |
| 30 | For Students – LED Binocular with Scanner, 10X, 40X, & Oil immersion lenses and inbuilt Battery backup power source | 60 |
| 31 | For Diagnostic & Research Work - Trinocular head Microscope with Bright field, Dark field, Fluorescent & Polarizing Facility, high end Apochromatic lenses with Camera with HDMI Multi output camera Minimum 5MP with Projector & Ultra HD TV > 52 inches & Screen including Software Capable of Brightfield & Immunofluorescence Photography with connectivity to projector & LED TV (At least 55 inches Ultra HD) | 1 |
| 32 | For every Professor, Associate & Assistant Professor : Binocular Microscopes with High end Semiapochromatic Optics of international standard. | 7 |
| 33 | For every Tutor – Binocular Microscope with suitable high end lenses. | 5 |
| 34 | Penta Head Microscope with High end Optics with HDMI Multi output Photographic camera (> 5 MP) including Software | 1 |
| 35 | Deca Head Microscope with High end Optics with HDMI Multi output Photographic camera (> 5 MP) including Software | 1 |
| 36 | Grossing Station - Stainless steel, with Control panel, air filtration system, Track mounted adjustable computer arm with articulation, LED lights that are color and intensity, Dedicated USB ports for camera control and data transfer adjustable, Integrated pathology camera system, Instrument Set (High quality) Height Adjustable Stainless Steel Chairs With Split AC of appropriate capacity. | 1 |
| 37 | Fully Automated Immuno-histo-chemistry Setup with Continuous supply of Important Antibodies, Lymphoma Panel etc. | 1 |



| | | |
|-----|---|-------------|
| 38 | Automatic High Speed Slide Scanner for converting Slides in Digital Format with software and Database Management with backup for Data Storage | |
| 39 | Demonstration eyepiece | |
| 40 | Colorimeter photoelectric klett | 1 |
| 41 | Microphotographic apparatus | 1 |
| 42 | Micro projection apparatus | 2 |
| 43 | Double demonstration eyepiece | 4 |
| 44 | 2x2 slide projector | 3 |
| 45 | Over head projector | 1 |
| (C) | Hematology Lab: | |
| 46 | Five part Fully Automated Cell Counter | 1 |
| 47 | Three Part Fully Automated Cell Counter | 1 |
| 48 | Coagulometer (Fully automated) | 1 |
| 49 | Magnifying lens | 3 |
| 50 | Blood pressure instrument | 5 |
| 51 | Laboratory Counter | 8 |
| 52 | Laboratory stirrer | 1 |
| 53 | Automatic timer | 5 |
| 54 | Balance for weighing organs | 1 |
| 55 | Saws, wire for cutting bones | 1 |
| 56 | Slide boxes for 100 slides for students | 200 |
| 57 | Drill for boring glass | 2 |
| 58 | X-ray viewing box (LED) | 2 |
| 59 | Sternal puncture needle adult size | 2 |
| 60 | Sternal puncture needle child size | 2 |
| 61 | Liver Biopsy needle | 2 |
| 62 | Stop watch reading at 1/5 second. | 5 |
| 63 | PH Meter electric | 5 |
| 64 | Electrophoresis Set Up | 1 |
| 65 | LED Wireless Projector | 3 |
| 66 | Museum jars. | 300 |
| 67 | Surgical instruments. | 5 Sets |
| 68 | Glassware, stains, chemicals reagents etc. for histological work. | As required |
| 69 | Hemoglobinometer sahils type | 90 |

| | | |
|-----|--|-------------|
| 70 | Sedimentation apparatus one western green & one wintrob | 2 |
| (D) | Clinical Laboratory: | |
| 71 | Five Part Hematology Analyzer | 1 |
| 72 | Three Part Hematology Analyzer | 2 |
| 73 | Automatic Urine Analyzer | 2 |
| 74 | Binocular Microscopes with high end optics including 100X & LED Fluorescence for each Faculty/ resident working in lab plus 2 microscopes for technicians. | 2 |
| 75 | Albino meters esbachs & aufrech"s type | 2 |
| 76 | Urine glasset (conical) | 12 |
| 77 | PH meter | 2 |
| 78 | Incubator | 2 |
| 79 | Haemacytometers with red and white pipettes | 90 |
| 80 | Syringes disposable | As required |
| 81 | Staining jars for slides. | 12 |
| 82 | Automatic Hematology Slide Stainers. | 1 |
| 83 | Urinometers(Mercury based instruments to be replaced with other alternatives) | 1 |
| 84 | Centrifuge tubes graduated. | 36 |
| 85 | Graduated cylinders for various capacities ranging from 100 cc to1000 cc. | 24 |
| 86 | Pipettes of various sizes with disposal tips. | 36 |
| 87 | Reagent bottles | 50 |
| 88 | Dropping bottles | 18 |
| 89 | Reagents | As required |
| 90 | Balances –Digital Single Pan Sensitive Chemical balance | 2 |
| (E) | Specimens: | |
| 91 | Mounted Specimens | 300 |
| 92 | Wet Specimens | 150 |



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Department Of Microbiology

Instruments



A. General

| Sr.No. | Name Of Instruments | Quantity |
|--------|---|----------|
| 01 | Anaerobic jar | 02 |
| 02 | Autoclave | 03 |
| 03 | Balance Electronic Digital | 02 |
| 04 | Biosafety Cabinet Type- 4x2x2 | 03 |
| 05 | B.O.D. Incubator | 02 |
| 06 | Centrifuge | 04 |
| 07 | CO2 Incubator/Candle Jar(CO2 Jar) | 02 |
| 08 | Computer Unit | 03 |
| 09 | Deep Freeze-20 degree Celsius & Deep Freezer | 01 |
| 10 | Distilled Water Plant | 01 |
| 11 | ELISA Reader | 02 |
| 12 | ELISA Washer | 02 |
| 13 | Hot Air Oven | 03 |
| 14 | Incubator | 05 |
| 15 | Lab Refrigerator(minimum 400 litres) | 04 |
| 16 | Laminar flow | 01 |
| 17 | Micrometer eye piece | 02 |
| 18 | Micrometer Stage | 02 |
| 19 | Microscope Binocular (student) | 90 |
| 20 | Microscope Binocular(Every faculty) | 05 |
| 21 | Microscope With universal condenser containing oil immersion, Bright field ,PhaseContrast& ,dark ground | 01 |
| 22 | Multimedia Projector | 02 |
| 23 | PH determination apparatus | 02 |
| 24 | Serum Inspissators | 02 |
| 25 | VDRL Shaker | 02 |
| 26 | Vortex Mixer | 02 |
| 27 | Water bath with variable temperature | 02 |
| 28 | Oil immersion lens for student microscope | 80 |
| 29 | Automated Blood Culture System | 01 |
| 30 | Colony Counter | 01 |
| 31 | Electrophoresis Complete Set | 01 |

B . Consumables for Culture & Serological Diagnosis.

| | | |
|----|--|-------------|
| 32 | Antibiotic Discs for Antibiotic susceptibility testing | As Required |
| 33 | Antibiotic Zone Scale | As Required |
| 34 | Antisera- Salmonella | As Required |
| 35 | Antisera- Shigella dysenteriae | As Required |
| 36 | Antisera- Shigella flexenari | As Required |
| 37 | Antisera- Shigella sonnie | As Required |
| 38 | Antisera- Vibrio cholerae | As Required |
| 39 | ATCC strain – Enterococcus faecalis 29213 | As Required |
| 40 | ATCC strain –E. coli 25922 | As Required |
| 41 | ATCC strain –E. coli 35218 | As Required |
| 42 | ATCC strain-Pseudomonas aeruginosa 27853 | As Required |
| 43 | ATCC strain – staphylococcus aureus 25923 | As Required |
| 44 | ATCC strain - staphylococcus aureus 29213 | As Required |
| 45 | Bottles for Blood culture | As Required |
| 46 | Micropipettes – Multi channel & single channel | As Required |
| 47 | Digital Thermometers of different temperatures | As Required |
| 48 | Various Kits for Serological Diagnostics | As Required |
| 49 | Laptop | As Required |
| 50 | Desktop Computer,with printer | As Required |
| 51 | Photocopier and Scanner | As Required |



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Bacteriology, Serology & Immunology



| | Culture Facilities | |
|-----|---|----------|
| 1 | Themometers (Assorted) | 12 |
| 2 | Glassware | Required |
| 2.1 | Pipettes | |
| | 0.1 ml | 10 |
| | 0.5 ml | 10 |
| | 1 ml | 10 |
| | 2 ml | 10 |
| | 5 ml | 10 |
| | 10 ml | 08 |
| | 25ml | 08 |
| 2.2 | Burettes | 1 |
| 2.3 | Beakers | |
| | 50 ml | 10 |
| | 100ml | 10 |
| | 250ml | 01 |
| | 500ml | 10 |
| | 1000 ml | 01 |
| 2.4 | Conical Flasks | |
| | 50ml | 05 |
| | 100ml | 10 |
| | 250ml | 01 |
| | 500ml | 10 |
| | 1000 ml | 05 |
| 3 | Autoclavable Petri Dishes of different Size(90mm Dia.*15mm) | 104 |
| 3.1 | Autoclavable Plastic Petri Dishes of different Size(90mm Dia.*15mm) | 50 |
| 3.2 | Autoclavable Glass Petri Dishes of different Size(90mm Dia.*15mm) | 54 |
| 04 | Reagent bottles | |
| 4.1 | Reagent bottles Plain | |
| | 50ml | 25 |
| | 100ml | 25 |
| | 250ml | 50 |

| | | |
|-----|---------------------------------------|-----|
| | 500ml | 15 |
| | 1000 ml | 5 |
| | 2000 ml | 10 |
| 4.2 | Reagent bottles with stopper | |
| | 60ml | 70 |
| | 125ml | 70 |
| | 250ml | 96 |
| | 500ml | 160 |
| | 1000 ml | 48 |
| | 2000 ml | 12 |
| 05 | Test tubers hard glass | |
| | 150 mm X 18 mm - 12Gross | 12 |
| | 100 mm X 12 mm -25Gross | 25 |
| | 75 mm X 12 mm -25Gross | 25 |
| 06 | PH Determination apparatus | 2 |
| 07 | Staining Troughs | 100 |
| 08 | Dropping Bottles For Stains (plastic) | 750 |




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Media

| Sr. No | Name of Item | Quantity |
|--------|--|-------------|
| 1 | Nutrient agar -500gm | As Required |
| 2 | MacConkey agar – 500gm | As Required |
| 3 | Mueller Hinton agar 500gm | As Required |
| 4 | Peptone water - 500gm | As Required |
| 5 | Urease agar – 100gm | As Required |
| 6 | Urea powder - 100gm | As Required |
| 7 | Citrate agar- 100gm | As Required |
| 8 | Triple sugar iron agar – 100gm | As Required |
| 9 | M R- V P broth – 100gm | As Required |
| 10 | Brain – heart infusion broth – 500gm | As Required |
| 11 | Robertson cooked medium – 500gm | As Required |
| 12 | Thioglycolate broth – 500 gm | As Required |
| 13 | Bile esculin agar – 100gm | As Required |
| 14 | Sabouraud dextrose agar – 100gm | As Required |
| 15 | Corn meal agar – 100gm | As Required |
| 16 | Thiosulphate citrate bile salt agar – 100gm (TCBS) | As Required |
| 17 | S-S agar -100 gm | As Required |
| 18 | XLD agar – 100gm | As Required |
| 19 | Wilson blair agar – 100gm | As Required |
| 20 | Glucose powder- 100gm | As Required |
| 21 | Sucrose powder -100gm | As Required |
| 22 | Maltose powder – 100 gm | As Required |
| 23 | Lactose powder – 100 gm | As Required |
| 24 | Mannitol powder – 100 gm | As Required |
| 25 | Inulin – 100 gm | As Required |
| 26 | Agar powder-500gm | As Required |



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Reagent and stains

| Sr.No | No Of Item | Quantity |
|-------|--|-------------|
| 1 | Indole reagent | As Required |
| 2 | Hydrogen peroxide | As Required |
| 3 | Cider wood oil | As Required |
| 4 | M R reagent | As Required |
| 5 | Na – hypochlorite | As Required |
| 6 | Conc. – H ₂ SO ₄ | As Required |
| 7 | KOH Powder – 500gm | As Required |
| 8 | Barium chloride – 500 gm | As Required |
| 9 | Potassium chloride powder – 10 gm | As Required |
| 10 | Sodium chloride 500 gm | As Required |
| 11 | Oxidaze reagent 100 gm | As Required |
| 12 | Lugol's iodine 100 ml | As Required |
| 13 | Lacto phenol cotton blue – 100 ml | As Required |
| 14 | India Ink-100ml | As Required |
| 15 | Crystal violet -500ml | As Required |
| 16 | Grams iodine 500ml | As Required |
| 17 | Saffranine 500ml | As Required |
| 18 | Absolute alcohol | As Required |
| 19 | Spirit – 500 ml | As Required |
| 20 | Carbol fuchSION – 500 ml | As Required |
| 21 | Methylene blue – 500 ml | As Required |
| 22 | Leishman's stain – 500 ml | As Required |
| 23.1 | Fields stain A – 500 ml | As Required |
| 23.1 | Fields stain B – 500 ml | As Required |
| 24 | Alberts : 'A' and ' B' – 100 ml | As Required |




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SPECIMEN

| Sr. No. | NAME | Qty. |
|--------------|---------------------------------------|-----------|
| 1. | P1- ROUNDWORM (ASCARIS MALE & FEMALE) | 2 |
| 2. | P2-HOOKWORM | 2 |
| 3. | P3-TAPEWORM | 2 |
| 4. | P4-PINWORM | 2 |
| 5. | P5-LIVER FLUKE (TREMA TO DES) | 1 |
| TOTAL | | 09 |



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CHARTS

| Sr. No. | Name |
|---------|------------------------------------|
| 1. | Helminthic Eggs In Stool Of Man |
| 2. | Life Cycle Ascar Is Lumbricolides |
| 3. | Life Cycle Ancylostoma Duodenale |
| 4. | Life Strongyloldes Stecoralis |
| 5. | Life Cycle Of Trchuris |
| 6. | Life Cycle Muchereria Bancrofti |
| 7. | Life Cycle Dracunculus Medinensis |
| 8. | Life Cycle Of Teania Saginata |
| 9. | Life Cycle Of Teania Solium |
| 10. | Cysts Intestinal Protozoa Of Man |
| 11. | Evolution Of Metadtatic Amoeriasis |
| 12. | Cycle Of Entamoeba Histolytica |
| 13. | Life Cycle Girdia Lamblia |
| 14. | Life Cycle Leishmania Donovanani |
| 15. | Pathogenic Protozoa |
| 16. | Bacteria |
| 17. | Viruses (Types Of Viruses) |
| 18. | Ascaris Lumbricoides - Structure |
| 19. | Plasmodium (Malarial Parasite) |
| 20. | Filariasis (L.H.) |



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MODELS

| Sr. No. | Name |
|---------|--------------------------------------|
| 1. | Simple Icosahedral Structure Virus |
| 2. | Bacteriophage |
| 3. | Icosahedral Capsid |
| 4. | Cultivation Into Embryonated Egg |
| 5. | Tobacco Mosaic Virus |
| 6. | Helical Nucleocapsid |
| 7. | Human Adeno Virus |
| 8. | Polovirus |
| 9. | Rhabdo Virus |
| 10. | Yeast Cell |
| 11. | L.H. Of. Rhizopus |
| 12. | Human Immunodeficiency Virus (HIV) |
| 13. | Hepatitis-B virus |
| 14. | Herpes Simplex Virus |
| 15. | L.H.Of Penicillium |
| 16. | L.H. Of Aspergillums |
| 17. | Influenza Virus |
| 18. | Auto Clave |
| 19. | Blood Agar |
| 20. | Maockoncey Agar |




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Department of Biochemistry

| Sr.No. | NAME OF THE ITEMS | Available (Qty.) |
|--------|--|--------------------|
| 1 | Analytical Balance : upto 200g/1gm increment | 2 |
| 2 | Urinometer calibrated (Mercury based instruments to be replaced with other alternatives) | 50 |
| 3 | Hot air oven (More than 200 litres) | 4 |
| 4 | Digital Colorimeters | 5 |
| 5 | Student Microscopes | 6 |
| 6 | Glucometer with strips (For POCT) | 2 |
| 7 | Thermometer 0 – 250 degree Celsius (Mercury based instruments to be replaced with suitable alternatives) | 5 |
| 8 | Semi autoanalyser | 2 |
| 9 | Boiling Water baths | 7 |
| 10 | Constant temperature water bath Tank Capacity: (Temperature range 5 to 80o Celsius) | 3 |
| 11 | Laboratory Reagent Refrigerators, capacity > 200 litres | 3 |
| 12 | Complete Chromatographic Unit for paper & TLC | 3 |
| 13 | Centrifuge clinical for ≥ 8 tubes | 6 |
| 14 | pH meters of wide range digital | 5 |
| 15 | Fixed volume pipettes -- 1ml,0.5ml,0.2ml,0.1ml and 0.02ml | 5 (of each volume) |
| 16 | Complete Electrophoresis apparatus with power supply (Paper, PAGE, agarose) | 7 |
| 17 | Densitometer with computer | 1 |
| 18 | Bottle dispensers | 20 |
| 19 | All glass distillation apparatus | 3 |
| 20 | Vortex mixers | 3 |
| 21 | Incubator 37oC | 4 |
| 22 | Variable and fixed volume micro auto pipettes | 19 |
| 23 | Glass ware & accessories | As required |
| 24 | Fume cupboard | 2 |
| 25 | Digital Analytical Balance | 1 |
| 26 | Balance Micro | 8 |
| 27 | Spectrophotometer | 1 |
| 28 | ELISA (Demonstration) | 1 |
| 29 | Laptop | 1 |
| 30 | Desktop Computer, with Printer | 2 |
| 31 | Photocopier and Scanner | 1 |
| 32 | Multimedia Projector with screen | 2 |
| 33 | Binocular microscope | 2 |
| 34 | Magnetic sterrer with hot plate | 1 |



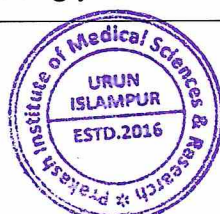

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BIOCHEMISTRY DEPARTMENT CHARTS

| SR.NO | NAME OF CHART | LOCATION |
|-------|---|------------------|
| 01 | Structure of different osazone. | Laboratory |
| 02 | Bottle brush structure of Proteoglycan monomer | Laboratory |
| 03 | Proteoglycan aggregate | Laboratory |
| 04 | Diagrammatic representation of glycogen molecule | Laboratory |
| 05 | Classification of fatty acids | Laboratory |
| 06 | The steroid nucleus, Phenanthrene (ring A:B:C) to which cyclopentane D ring is attached | Laboratory |
| 07 | The structure of Cholesterol | Laboratory |
| 08 | Structure of lipoprotein where TG: triacylglycerol CE: Cholesterol ester | Laboratory |
| 09 | Diagrammatic representation of lipoprotein with increasing densities | Laboratory |
| 10 | Classification of amino acids based on Polarity | Demo Room |
| 11 | Schematic diagram for the primary structure of Protein | Demo Room |
| 12 | Formation of hydrogen bond in alpha helix | Demo Room |
| 13 | Schematic diagram of alpha helical structure of Protein | Demo Room |
| 14 | Anti-Parallel β -Pleated of sheet structure | Demo Room |
| 15 | Parallel β -pleated of sheet structure | Demo Room |
| 16 | Denaturation of Protein | Demo Room |
| 17 | Electrophoretic separation of serum Proteins on cellulose acetate strip | Laboratory |
| 18 | Densitometric scanning of normal serum Protein | Laboratory |
| 19 | --- | -- |
| 20 | Different electrophoretic Patterns of serum compared with normal serum | Laboratory |
| 21 | Plasma Proteins their functions of diagnostic importance | Laboratory |
| 22 | Schematic Structure of LgG to Show Basic Structure of Immunoglobulin Molecule | Dept. of Library |
| 23 | Sir Hans Adolf Krebs | HOD Office |
| 24 | Gerty Cori | Laboratory |
| 25 | Johann Heinrich Lambert (1728-1777) | Laboratory |
| 26 | Francis Crick | HOD Office |
| 27 | Peter D. Mitchell | Laboratory |
| 28 | Jacques Monod | Research Lab |

| | | |
|----|--|------------------|
| 29 | Leonor Michaelis | Laboratory |
| 30 | -- | -- |
| 31 | Schematic representation of induced fit model of Koshland | Demo Room |
| 32 | Representation of formation of an ES Complex according to the fisher's lock and key model | Demo Room |
| 33 | Diagrammatic representation of competitive inhibition | Demo Room |
| 34 | Classes of enzyme inhibitors | Demo Room |
| 35 | Commonly used drugs that are enzyme inhibitors | Demo Room |
| 36 | -- | -- |
| 37 | Typical rise in serum enzyme activities following a myocardial infarction | Laboratory |
| 38 | -- | -- |
| 39 | -- | -- |
| 40 | Renin-angiotensin-aldosterone system (RAAS) in regulation of water and electrolyte balance | HOD Office |
| 41 | Catabolic pathway of hemoglobin | Dept. of Library |
| 42 | Conjugation of bilirubin with glucuronic acid in the liver | Dept. of Library |
| 43 | Source of Carbon and nitrogen atoms in the purine ring | |
| 44 | The Central dogma of molecular biology | Research Lab |
| 45 | Semiconservative DNA molecules | Research Lab |
| 46 | -- | -- |
| 47 | Replicating fork | Research Lab |
| 48 | -- | -- |
| 49 | Inhibitors of Transcription | Research Lab |
| 50 | Reverse Transcription | Research Lab |
| 51 | Activation of amino acid AAS: Amino acyl tRNA Synthase | Research Lab |
| 52 | Schematic diagram of lac operon | Research Lab |
| 53 | -- | -- |
| 54 | -- | -- |
| 55 | The Principal buffers of the blood | Laboratory |
| 56 | -- | -- |
| 57 | Action of hemoglobin buffer in lungs | Laboratory |
| 58 | Feedback Control of H ⁺ Concentration by respiratory system | |
| 59 | -- | -- |
| 60 | Metabolic importance of glycine | Dept. of Library |



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