

Items List

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
1.	Table with marble or stainless-steel top with a minimum size of 6' x 2' x3'		
2.	Tables with marble or stainless-steel tops - half standard gize		
3.	Drill machine		
4.	Hand saw, preferably metal		
5.	Band saw for sectioning body and limbs		
6.	Stools, preferably metal		
7.	Brain knife		
8.	Mortuary cooler with arrangement to keep at least 8 bodies or suitable alternative arrangement		
9.	Storage tank to hold 10 cadavers, static/movable, durable tank with inpui and ouiput facility with lid		
10.	Plastic tanks for storing soft and dissected parts		
11.	Trolley Table (Steel)		
12.	Multimedia Projector with screen		
13.	Movie camera with projection screen		
14.	Computer with internet connection, & video CD library		
15.	X-ray View box	2500.0	
16.	X-Ray plates/MRI/CT scan/USG		
17.	Charts, Diagrams, Models, Slides etc.		
18.	Dissecting instruments		
19.	Meat cutting machine for thin body sections (trans and vertical) for gross anatomy sectional study		
20.	Steel trays (big & small)		
21.	Cadavers		
22.	Embalming machine		
	(B) HISTOLOGY		
23.	Microscopes		
24.	Dissection microscope		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
25.	Microtome, rotary		
26.	Microtome, Sledge, large cutting		
27.	Cabinet for slides (1000)		
28.	Incubators		
29.	Paraffin embedding bath		
30.	Hot plates for flattening sections		
31.	Hot air oven for drying slides (450° C)		
32.	Refrigerator (minimum 165 l.)		
33.	Diamond pencils		
	(C) MUSEUM		
34.	Articulated Skeleton set		
35.	Isarticulated Bone set		
36.	Wet Specimen jars (Glass)		
37.	Steel Racks		
38.	Desktop Computer Laptop with printer-scanner-copier facility		
	2. Department of Physiology		
1.	Microscopes. oil immersion		
2.	Demonstration eye piece		
3.	Double demonstration eye piece		
4.	Stage incubator		
5.	Westergren pipette for E.S.R. on stand (with space pipette)		
6.	Wintrobe's pipette for ESR and PCV with stand		
7.	Hemoglobin-meter Sahli's or Melliger (with spaces)		
8.	Hemocytometer		
9.	Thermoincubators. balances, microslides and glassware		
10.	Multi-channel photometer. 2 channels, complete and accessories		
11.	Centrifuge, high speed with tachometer		
12.	Colorimeter, photometer		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
13.	pH meter electric		
15.	Digital Physiograph		
16.	Digital Perimeter		
17.	Sphygmomanometer(digital& mercury based instruments to be replaced with suitable alternatives)		
18.	Stethoscope		
19.	Stethoscopes, demonstration with multiple ear pieces		
20.	Polygraphs		
21.	Spirometer, ordinary		
22.	Digital Spirometer	12500.0	
23.	Mosso's Ergograph		
24.	Clinical thermometer		
25.	Compass aesthesiometer		
26.	Thermoaesthesiometer		
27.	Algometer		
28.	Reflex hammer		
29.	Stethograph		
30.	Bicycle Ergometer		
31.	Olfactometer		
32.	Ophthalmoscope	12350.0	
33.	Schematic eye		
34.	Color perception lantern Edridge green		
35.	Dynamometer		
36.	Otoscope		
37.	Stop watch		
38.	Digital ECG Machine	48000.0	120000.0
39.	Yoga Mat		
40.	Tuning fork to test hearing 32-10000 cps (100, 256, 512Hz)		
41.	Van Slyke's apparatus manometric (Desirable)		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
42.	Venous pressure apparatus (Desirable)		
43.	Douglas bag, complete (Desirable)		
44.	Basal metabolism apparatus (Desirable)		
45.	Apparatus for passive movement (Desirable)		
46.	Phakoscope (Desirable)		
47.	Perimeter with charts (Lister's) (Desirable)		
48.	Maddox rod (Desirable)		
55.	Newton's color wheel (Desirable)		
56.	Student physiograph (single channel) with accessories (Desirable)		
57.	Gas analyser automatic for CO ₂ , O ₂ , N ₂ (Desirable)		
59.	Sherrington Starling kymograph (electrically driven) Complete assembly		
60.	Electromagnetic time marker		
61.	Myograph stand		
62.	Electronic stimulator		
63.	Tuning fork time marker 100/sec		
64.	Electrodes		
65.	Spirit lamps		
66.	Marey's tambour		
67.	Softwares to demonstrate Amphibian and mammalian experiments (Desirable)		
68.	Low voltage unit for tapping 2 and 4 volts for stimulation (Desirable)		
	GENERAL		
69.	Centrifuge, high speed with tachometer etc.		
70.	Refrigerator, 9-10 cu ft.		
71.	Water distillation still, with spare heating elements		
72.	11 glass distillation apparatus double stage		
73.	Voltage stabilizer		
74.	Stepdown transformers		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
	3. Department of Biochemist		
1 .	Analytical Balance : up to 200 g/1gm increment		
2.	Urinometers calibrated (Meirily based instruments to bereplaced with other alternatives)		
3	Plot air oven (More than 200 litres)		
4.	Digital Colorimeters		
5	Student Microscopes		
6.	Glucoineter with stripa (For roc r		
7	Thermometer 0 — 250 degree Celsius		
8.	Semi autoanalyzer	110000.0	
9	Boiling Water baths		
10	Constant temperature water bath Tank Capacity:(Temperature range 5 to 80 degree Celsius)		
11	Centfuge clinical for > 8 tubes		
12	pH meters of wide range digital		
13	Fixed voJume pipettes -- ! ml,0.5mt,0.2ml,O.1ml and 0.02ml		
14	Bottle dispensers		
15	Variable and fixed volume micro auto pipettes		
16	Vacutainer Tube		
17	PCR Machine (either in the institution or elsewhere on avisit)		
18	ABG Machine	385000.0	
19	Autoanalyzer (either in the institution or elsewhere on avisit)	495000.0	
20	Complete Chfnmatographic Unit for paper & TLC (either in the institution or elsewhere on avisit)		
21	Complete Electrophoresis apparatus with power supply (Paper, PAGE, agarose) (either in the institution or elsewhere on avisit)		
22	Gensitometer with computer		
23	Vortex mixers		
24	Incubator 37a t		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
25	Fume cupboard		
26	Digital Analytical Balance		
27	Balance Micro		
28	Spectrophotometer		
30	PCR machine (either in the institution or elsewhere on avisit)		
31	ELISA Reader	135000.0	
32	ELISA washer	115000.0	
33	Urine strips lot Glucose & Protein		
34	ISE analyzer		
35	Refrigerators (Minimum - 400 Ltrs capacity)		
Note: Equipments for student demonstration may be shared by the departments to prevent duplication and make cost effective.			
	(4) Department Of Pathology (for demonstration)		
	5. Cytopathology section		
	• Cytospin		
	• Auto stainer		
	• Facilities for liquid-based cytology		
	6. Histology section		
	• Electrophoresis apparatus		
	• I IPLC		
	• Fine cytometry —Desirable		
	7. IHC		
	• Immuno fluorescence Microscope		
	8. Molecular Diagnostic		
	» Conventional PCR		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
	• Real time PCR		
	(a) Clinical Laboratory:		
(A)	General		
	Histopathology / Cytopathology for Students		
1.	For Students — LED Binocular with Scanner, 10X, 40X, & Oil immersion lenses and inbuilt Battery backup power source		
11	Hematology for Students		
2.	Stop watch reading at 1 / 5 u:cond.		
3.	Haemo-cytometers with red and white pipettes		
4.	Staining jars for slides.		
111	Clinical Pathology for Students		
1.	Urinometers (Mercury based instruments to be replaced with other alternatives)		
2,	Centrifuge tubes graduated.		
3.	Graduated cylinders for various capacities ranging from 100 cc to 1000 cc. (For Students)		
4.	Pipettes of various sizes with disposal tips. (For Students)		
5,	Reagent bottles (For Students)		
6.	Dropping bottles (For Students)		
7.	Reagents (For Students)		
	(B) Morbid Histology and Morbid Anatomy		
1.	Manual Rotary Microtome		
2.	Automated Rotary Microtome		
3.	Cryostat		
4.	Hot plate		
5.	Paraffin embedding bath		
6.	Heated Paraffin Embedding Module		
7.	Cold Plate for Modular Tissue Embedding System		
8.	Automated Tissue Processor - Histokinette		
9.	Autoclave		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
10.	Ultrapure water solutions - Distilled water plant		
11.	Water bath		
12.	Centrifuge machine		
13.	Digital SLR at least 2.0 megapixel with micro, macro wideangle zoom lenses, Flash and other accessories		
14.	Digital Automatic camera > 5 megapixel		
15.	Fully Automated high throughput Multi-Stainer Workstation		
16.	Fully Automated Embedding System (Heated embedding module & cold plate) (desirable)		
17.	Fully Automated Flexible Coverslipping Workstation (aspirational)		
18.	Standalone paraffin dispensing module cold plate holding more than 100 cassettes		
19.	Stand-alone cold plate		
20.	Single Pan Digital Balance, Chemical		
21.	Balance, chemical with weights		
22.	Microscopes		
23.	Grossing Station - Stainless steel, with Control panel, air filtration system, Track mounted adjustable computer arm with articulating LED light that are color and intensity, Dedicated USB ports for camera control and data transfer, Integrated pathology camera system, Inbuilt Scientific (High quality) height Adjustable Stainless Steel Chairs With Split AC of appropriate capacity.		
24.	Fully Automated Immuno-histo-chemistry Setup with Continuous supply of Important Antibodies, Lymphoma Panel etc. (for Post graduate training)		
	(C) Hematology Lab: For demonstration		
25.	five part Fully Automated Cell Counter	450000.0	
26.	Three Part fully Automated Cell Counter	225000.0	
27.	Coagulometer (Fully automated)		
	(5) Department Of Microbiology		
1.	Microscopes (Specified as in Pathology)		
2.	Culture Plates/ Petri Dishes		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
3.	Glass waves ncluding PBsteur Pipettes		
4.	l'acility for heati B SI:des		
	General		
5.	Anaerobic apparatus		
6.	Autoclave		
7.	Balance Electronic Digital		
8.	Biosafety Cabinet Type - 2A		
9.	BOD Incubator		
10.	Centrifuge		
11.	CO2 Incubator/Candle Jar		
12.	Computer Unit		
13.	Deep Freeze -20° C & Deep freezer		
14.	Distilled water Plant		
15,	Elisa Reader with washer		
16.	Hal Air Oven		
t7.	Incubator		
18.	Lab Refrigerator (minimum 400 litres)		
19.	Laminas flow		
20.	Micrometr eye pieces		
21.	Micrnmeter stage		
22.	Microscope Binocular		
23.	Microscope with universal condenser containing oilimmersion, Bright field, Phase Contrast & Dark ground		
24.	pH determination apparatus		
25.	Semm inspissatots		
26.	VDRL shaker		
27.	Vortex Mixer		
28.	W8tr bath with v8riable temperature		
29:	Oil-immersion lens for student microscope		
30.	Autnmated Blood Culture System		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
31.	Colony Counter		
	(C) Consumables for Culture and Serological Disgnosis		
32.	Antibiotic Discs for Antibiotic susceptibility testing		
33.	Antibiotic zone scale		
34.	Antisera-Salmonella		
35.	Antisera-Sfiige/fadysenrerine		
36.	Antisera-5'fi igellaflxnari		
37.	Antisera-Sfiigellasonnie		
38.	Antisera-Vibrio cholerae		
39.	ATCC strain - Enterococcus faecalis 29213		
40.	ATCC strain - E.coli 25922		
41.	ATCC strain - E.coli 35218		
42.	ATCC strain - Pseudomonas aeruginosa 27853		
43.	ATCC strain - Staphylococcus aureus 25923		
44.	ATCC strain - Staphylococcus aureus 29213		
45.	Bottles for blood culture		
46.	Micropipettes-Multi Channel & Single Channel		
47.	Digital Thermometers of different Temperatures		
	(D) BSL 2 Lab		
48.	Deep Freezer With UPS		
49.	Real-Time PCR machine calibrated for the fluorescent dyes with UPS (2 nos., 2KVA each, with 2 hours backup)		
50.	Microcentrifuge/Refrigerated Centrifuge		
51.	(a) Personal Protective Equipment (PPE) (b) Viral Transport Medium (VTM) (c) All other consumables and kits as required for Virology Studies		
52.	Magnifying glass with metal handle		
53.	Metal mincing machine		
54.	Postmortem instruments sets complete		
55.	Suction Pumps		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
56.	Filtering apparatus Seitz		
57.	Filter and Millipore Filter - each		
58.	Desiccators		
59.	Vaccum Desiccators		
60.	Apron Plastic for postmortem		
61.	Apron rubber for postmortem		
62.	Lyophilizer		
63.	Thermal Cyclor		
64.	U.V. Transilluminator with photography		
65.	Colony Counter		
66.	Cold Room + 4 degree celcius		
67.	BACTEC system		
68.	Phase contrast Microscope		
69.	Vortex Mixer		
70.	Electronic Balance		
71.	Microfuge		
72.	Ultra Centrifuge		
73.	Flourescent Microscope		
	6)Dcpartment Of Pharmacology		
	Clinical Pharmacology Lab		
I.	Special Drug Delivery systems like Metered Dose Inhalers, Spacers, Nasal sprays, Transdermsl patchbes, Insulin pen etc.		
2.	Samples of various important drug formulations including rational and irrational FDC, Essential medicines		
3.	Simulation models for dcinonstration of routes of administration i.e., cartons injections (iv, iin, se. intracardiac), cnema, vaginal pessaty insertion, and other routes of drug administration. Modules for communication competencies e.g., module with recorded videos of role play.		
B. Cozziputer Aesicted learning L.2b			

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
4.	Must have computers with standard configuration and connected to the internet, (Preferably broadband) along with AV aids including multimedia projector and screen (D screen). The computers to have computer assisted teaching-learning and assessment material e.g., National List of Essential Medicines, Standard Treatment Guidelines, Banned Drugs List of the CDSCO, Hospital formulary, Animations/videos of mechanism of action of clinically useful drugs in humans, Adverse Drug Reactions forms, photographs of ADRs, Drug Promotional Literature, OSCE/OSPE station material and Self-assessment modules. E-prescription, Digital cases, and case videos (optional)		
	(7) DEPARTMENT OF FORENSIC MEDICINE AND TOXICOLOGY		
	1. Autopsy table- 2		
	2. Portable X-ray machine must be present in every autopsy block with provision of Radio-technician (can be shared with Radiology) and reporting by Radiologist to avoid movement of dead body from autopsy room to Radiology Department to meet the requirement of dignified management of dead.	145000.0	315000.0
	3. Computers with printers.		
	4. Software for preparing and printing postmortem report etc.		
	5. Mortuary block should have air condition facility.		
	6. Dead body freezer (as per requirement).		
	7. Adequate protective clothes, equipment's for the staff of the department working in autopsy block.		
	8. Provision of Video-conferencing room in the department to give evidence in the court room of law to meet requirement of Digital India with appropriate facility of Internet, Computer, Video camera, etc.		
	Where FMT department has functional Poison Information Centre and Analytical Toxicology lab then it should have following equipments:		
	1. Digital Spectrophotometer		
	2. Chemical Balance		
	3. Distillation Plant		
	4. Spectroscopic Lens with Adjustable Slit.		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
	5. TLC, HPLC, GC-MS		
1	Anthropometric Set including		
	A) Folding Metal Rod Upto 7 Ft		
	B) Osteometric Board		
	C) Craniometer		
	D) Mandibulometer		
	E) Goniometer		
	F) Vernier Calipers		
	G) Equipment for Reporting Height		
	H) Weighing Machine Dial Type Human		
2	Digital pH Meter		
3	Digital Spectrophotometer		
4	Chemical Balance		
S	Distillation Plant		
6	Refrigerator		
7	Centrifuge		
8	Slide Warming Table		
9	Hot Plate		
10	Spectroscopic Lens With Adjustable Slit		
11	Dissection Set Complete		
12	Digital BP Instrument		
13	Stethoscope		
	Medico legal work		
14	Cold Storage For Fresh Bodies		
15	Weighing Machine For Dead Bodies		
16	Autopsy Tables		
17	Stryker Type Autopsy Saw With Accessories		
18	Weighing Machine For Organs		
19	Weighing Machine For Fetus		
20	Dissection Set Complete		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
21	Brain Knife		
22	Hack Saw		
23	Rib Shear Left & Right		
24	Measuring Tape (Steel Tape Roll)		
25	Magnifying Lens		
26	X-Ray View Box (4 In 1)		
27	NOCTHERMEX 1.0L & Right		
28	Hand Sealer		
29	Instrument Trolley		
30	Rectal Thermometer		
31	Portable X-ray Machine (can be shared with Radiology Department)	145000.0	315000.0
	(8) Department Of Community Medicine		
1	Hygrometer, milk		
2	Incubator, electric (can be procured from Microbiology)		
3	Balance for weighing food item (Capacity 2 Kg).		
4	Centrifuge clinical *		
5	Weighing machine adult	2700.0	
6	Baby weighing machine		
7	Salters Baby weighing machine		
8	Harpender Calipers (for skinfold thickness)		
9	Height measuring stand		
10	Refrigerator 9 cmft.		
11	Ice Lined RC 8 P (I.L.R.) (at Health Centre)		
12	Smart TV		
13	Vehicles for transport of students/interns/faculty/paramedical staff to the RHTC and UHTC		
14	Multimedia Projector with Screen		
15	Public Address system (2 portable for field based activities and one each for RHTC & UHTC)		

Unnamed: 0	Department of Anatomy:	Min Price (Rs)	Max Price (Rs)
16	Chloroscope		
17	Horrock's Apparatus		
18	MUAC tapes		
19	Haernogtobinometer		
20	BP Apparatus (Digital)	3100.0	
21	Stethoscope		
22	Sound level meter		
23	Water sampling bottle from any depth		
24	Needle Shredded		
25	Vaccine camer		
26	Craft water testing kit		
27	Treatment kits as per national health programs		
28	Iodine testing kit		
29	Glucometer	750.0	
30	Mosquito catching kit		
31	Clinical Thermometer		
32	First Aid Kit		
33	Otoscope		
	SKILLS LAB		
	III Trainer simulators / models / mannequins for:		
	First aid. Bandaging, splicing		
	• Basic Life Support (BLS), CPR (Cardio Pulmonary Resuscitation) mannequin		
	• Various types of injections- Subcutaneous, Intra-muscular, Intra-venous		
	• Urine Catheter insertion		
	• Skin & Pascia ensuring		
	• Breasi examination model /nianncquin		