

30	Desktop Computer, with Printer	2
31	Photocopier and Scanner	1
32	Multimedia Projector with screen	2

#### 4. PATHOLOGY (New List)

S.No.	NAME OF THE ITEMS	No. Required
(A)	<b>General</b>	
1	Desktop Computers with High Speed Internet, Laser Black & White Heavy duty Laser Printers, Color Inkjet Printers, Scanners, Photocopy (Xerox) Machines, Telephone with STD facility, Fax Machine etc. Every faculty & Resident must have separate Desktop/Laptop with high speed Internet facility. Office table small and big, office chairs; museum almirahs; study table, staff room, and library almirahs, stock almirahs, store room racks, 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.	As required
(B)	<b>Morbid Histology and Morbid Anatomy</b>	
2	Specimen Identification Solutions	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	1
15	Centrifuge machine	5
16	Cabinet for slides	As required
17	Autopsy tables	Common with Forensic Dept.
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	As required
26	Coplin jars	As required
27	Water bath (Tissue Floatation)	As required
28	Single Pan Digital Balance, Chemical	2
29	Balance, chemical with weights	2
	<b>Microscopes</b>	
30	For Students – LED Binocular with Scanner, 10X, 40X, & Oil immersion lenses and inbuilt Battery backup power source	60

31	<b>For Diagnostic &amp; Research Work</b> - 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	<b>For every Professor, Associate &amp; Assistant Professor</b> : Binocular Microscopes with High end Semiapochromatic Optics of international standard.	As required
33	<b>For every Tutor</b> – Binocular Microscope with suitable high end lenses.	As required
34	<b>Penta Head Microscope with High end Optics</b> 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	<b>Grossing Station</b> - 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	1
<b>(C)</b>	<b>Hematology Lab:</b>	
39	Five part Fully Automated Cell Counter	1
40	Three Part Fully Automated Cell Counter	1
41	Coagulometer (Fully automated)	1
42	Magnifying lens	3
43	Blood pressure instrument	5
44	Laboratory Counter	As required
45	Laboratory stirrer	As required
46	Automatic timer	5
47	Balance for weighing organs	1
48	Saws, wire for cutting bones	As required
49	Slide boxes for 100 slides for students	200
50	Drill for boring glass	As required
51	X-ray viewing box (LED)	2
52	Sternal puncture needle adult size	As required
53	Sternal puncture needle child size	As required
54	Liver Biopsy needle	As required
55	Stop watch reading at 1/5 second.	5
56	pH Meter electric	5
57	Electrophoresis Set Up	1
58	LED Wireless Projector	3
59	Museum jars.	As required
60	Surgical instruments.	5 Sets
61	Glassware, stains, chemicals reagents etc. for histological work.	As required
<b>(D)</b>	<b>Clinical Laboratory:</b>	
62	Five Part Hematology Analyzer	1
63	Three Part Hematology Analyzer	2
64	Automatic Urine Analyzer	2
65	Binocular Microscopes with high end optics including 100X & LED Fluorescence for each Faculty/ resident working in lab plus 2 microscopes for technicians.	As Mentioned

66	Sp. Gravity Measure	2
67	PH meter	2
68	Incubator	2
69	Haemocytometers with red and white pipettes	90
70	Syringes disposable	As required
71	Staining jars for slides.	As required
72	Automatic Hematology Slide Stainers.	As required
73	Urinometers(Mercury based instruments to be replaced with other alternatives)	As required
74	Centrifuge tubes graduated.	As required
75	Graduated cylinders for various capacities ranging from 100 cc to 1000 cc.	As required
76	Pipettes of various sizes with disposal tips.	As required
77	Reagent bottles	As required
78	Dropping bottles	As required
79	Reagents	As required
80	Balances –Digital Single Pan Sensitive Chemical balance	As required
<b>(E)</b>	<b>Specimens:</b>	
81	Mounted Specimens	300
82	Wet Specimens	150
	<b>Note:</b> Equipment must be of International specification & standards, regular calibration, running of international standard controls, comprehensive maintenance are mandatory. Department must have High Speed Internet Facility > 2 MB/S. Adequate Desktop, Laptops, Printers, Scanners, Portable Hard Disks, DVD Writer etc. for office and for the Faculty & Residents.	

### 5. MICROBIOLOGY ( New List)

S.No.	NAME OF THE ITEMS	No. Required
<b>(A)</b>	<b>General</b>	
1	Anaerobic apparatus	2
2	Autoclave	3
3	Balance Electronic Digital	2
4	Biosafety Cabinet Type - 2A	3
5	BOD Incubator	1
6	Centrifuge	4
7	CO2 Incubator/Candle Jar	2
8	Computer Unit	3
9	Deep Freeze -20° C & Deep Freezer	1 each
10	Distilled water Plant	1
11	Elisa Reader	2
12	Elisa Washer	2
13	Hot Air Oven	2
14	Incubator	3
15	Lab Refrigerator (minimum 400 litres)	4
16	Laminar flow	1
17	Micrometer eye pieces	2
18	Micrometer stage	2
19	Microscope Binocular (Students)	90