

CATEGORY A**List of Items Required for Various Dept. of Bilawal Medical College for Boys at LUMHS Jamshoro**

S#	Description	Quantity	@ Rate	Amount
01.	Branded Desktop Computer (HP, Dell or equivalent) Intel @ 7th Generation™ Core i5 7500 or above 3.4 GHz turbo up to 3.8 GHz, 8MB Cache or Above 4GB Ram DDR-4 or above 1TB Hard drive STATA or Above DVD/RW Keyboard & Mouse LED 18.5 inches or Above with Three Years Warranty	51 Nos.		
02.	Slide projection Microscope Specification. Eyepieces and Magnification: . Three Objectives: 5x, 20x . Spring Loaded 20x objective to protect slides. Illumination: . 24V/150W Halogen Transmitted bases Illumination Stage Specification . Stage size 110 mm x 110 mm with slides clips Focusing: . Fine and Coarse Focusing knobs on both sides of microscope . Adjustable Screw-stop to limit coarse range to protect slides . Rack & pinion steel gears with knob to easily move stage up & down Frame-Base-Size Weight: . Total Over all Height of Microscope: 420mm . Instrument weight: 16 lbs	01 Nos.		
03.	Embryology Slides Set	01 No.		
04.	Neuro Anatomy slides set	01 No.		
05.	Overhead projector	02 Nos.		
06.	Projection microscope	01 No.		

**List of Equipments/ Items Required for Dept. of pathology at Bilawal Medical College LUMHS
Jamshoro**

S#	Description	Quantity	@ Rate	Amount
07.	Westergren ESR system (Bottles, tubes & Stand)x6	02 nos.		
08.	Stain Dropping Bottles (250ml)	04 Nos.		
09.	Hot air oven (Medium)	01No.		
10.	Water bath with stirrer, temperature control & display	02Nos.		
11.	Centrifuges microhematocrit with reader	01No.		
12.	Fixed high speed centrifuges with timer	01No.		
13.	Centrifuges with timer and speed control to hold 06 ordinary test tubes	01No.		
14.	Blood Grouping tiles	03Nos.		
15.	Pipet glass (Pyrex) or equivalent graduated 1 ml	02Nos.		
16.	Pipet glass (Pyrex) or equivalent graduated 2 ml	02Nos.		
17.	Pipet glass (Pyrex) or equivalent graduated 5 ml	02Nos.		
18.	Pipet glass (Pyrex) or equivalent graduated 10 ml	02 Nos.		
19.	Stand test tube plastic/steel for sugar tubes	06 Nos.		
20.	PH meter clinical	01 No.		
21.	Precision electronic balance	01 No.		
22.	Bone marrow aspiration needles adult (Islam) or equivalent	02 nos.		
23.	Bone marrow aspiration needles pediatric (Islam) or equivalent	01 No.		
24.	Bone Marrow trephine biopsy needles adult (Islam) or equivalent	01 No.		
25.	Glass beaker (pyrex) or equivalent 100 ml graduated	04 Nos.		
26.	Glass beaker (pyrex) or equivalent 500 ml graduated	04 Nos.		
27.	Glass cylinder (pyrex) or equivalent 500 ml graduated	04 Nos.		
28.	Flask conical glass (pyrex) or equivalent graduate	04 Nos.		
29.	Water Still	04 Nos.		
30.	Shaker	01 No.		
31.	Incubator 37c large	01 No.		
32.	Incubator 37c small	01 No.		
33.	Incubator cold 22-29c	01 No.		
34.	Safety cabinet	01 No.		
35.	Anaerobic system with gas generator kit	01 No.		
36.	Semi-automated chemistry analyzer	01 No.		
37.	Oven sterilizer	01 No.		
38.	Vacuum pump	01 No.		
39.	Knife Sharpener	01 No.		
40.	Incubator Large	01 No.		
41.	Table lamp with flexible/ adjustable head	01 No.		

List of Chemicals Required for Dept. of Biochemistry at Bilawal Medical College LUMHS Jamshoro

S#	Description	Quantity	@ Rate	Amount
42.	Acetone 2.5 liter	01 bottle		
43.	Acetic Acid Glacial 2.5 liter	01 bottle.		
44.	Acetic Anhydride 250 ml.	01bottle.		
45.	Albumin	250mg		
46.	Alpha-Naphthol	250mg		
47.	Ammonia strong 2.5 liter	01 bottle		
48.	Ammonium molybdate	250mg		
49.	Ammonium sulphate	250 mg		
50.	Barium chloride	250mg		
51.	Benzidine HCL (1X100gm)	01 bottle		
52.	Bile salt (1x250gm)	01 bottle		
53.	Boric acid 1 kg	01 bottle		
54.	Bromocresol Brilliant	100gram		
55.	Casein	100gram		
56.	Chloroform 2.5 liter	01 bottle		
57.	Chlorophenol red (1x25 gm)	01 Bottle		
58.	Copper sulphate	250mg		
59.	Creatinine (1x25mg)	01 bottle		
60.	Dextrin	250mg		
61.	Either 1 liter	01 bottle		
62.	Ethyl alcohol 2.5 liter	01 bottle		
63.	Fructose	250mg		
64.	Galactose	250mg		
65.	Globulin	250mg		
66.	Glucose	250mg		
67.	Glycogen	10gram		
68.	Hydrochloric acid 2.5 Liter	01 bottle		
69.	Hydrogen peroxide 2.5 liter	01 bottle		
70.	Iodine (1x500gm)	01 bottle		
71.	Lactose	250mg		
72.	Lead acetate	250mg		
73.	Lithium carbonate	250mg		
74.	Mannose	250mg		
75.	Mercuric nitrate (1x100gm)	01 bottle		
76.	Mercuric sulphate (1x250gm)	01 bottle		
77.	Mercury Pure (1x250gm)	01 bottle		

78.	Nitric acid 2.5 liter	01 bottle		
79.	Orthophosphoricacid 2.5 liter	01 bottle		
80.	Phenyl hydrazine hydrochloride	250gm		
81.	Picric acid 500 gram	01 bottle		
82.	Potassium iodide	01 kg		
83.	Potassium thiocynate	01 kg		
84.	Silver nitrate (1x100gm)	01 bottle		
85.	Sodium acetate	01 kg		
86.	Sodium borate	01 kg		
87.	Sodium nitrate	01kg		
88.	Sodium carbonate	01kg		
89.	Sodium hydroxide	01kg		
90.	Sodium nitroperoxide 500g	01 bottle		
91.	Sodium potassium tartrate	01kg		
92.	Sodium nitropursside	01kg		
93.	Sodium sulphate	01kg		
94.	Sodium Sulphide	01kg		
95.	Sodium Sulphite	01 kg		
96.	Sodium tungstate (1x500gm)	500gm		
97.	Starch Powder	500gm		
98.	Sulphosalicylicacid 2.5 L	01 kg		
99.	Tartaric acid 1kg	01kg		
100.	Thymol blue Indicator (1x25gm)	01 bottle		
101.	Uric acid 250gm (BDH)	01 bottle		
102.	Urea 250gm	01 bottle		

List of Glassware Required for Dept. of Biochemistry at Bilawal Medical College LUMHS Jamshoro

S#	Description	Quantity	@ Rate	Amount
102.	Beakers 500 ml	06 Nos.		
103.	Beakers 250ml	06 Nos.		
104.	Beakers 100 ml	06 Nos.		
105.	Beakers 1000 ml	02 Nos.		
106.	Burette (pyrex) 25ml	10 Nos.		
107.	Burette stand iron	10 Nos.		
108.	Burners	12 Nos.		
109.	Bottles (reag) 1000 ml	12 Nos.		
110.	Bottles (reag) 500 ml	12 Nos.		
111.	Bottles (reag) 250 ml	12 Nos.		
112.	Conical flask 250 ml	10 Nos.		
113.	Conical flask 1000 ml	03 Nos.		
114.	Conical flask 500 ml	06 Nos.		
115.	Cylinder 1000 ml	01 No.		
116.	Cylinder 100 ml	06 Nos.		
117.	Cylinder 50 ml	02 Nos.		
118.	Cylinder 25 ml	06 Nos.		
119.	Drop bottle 50 ml	12 Nos.		
120.	Medicinal droppers	24 Nos.		
121.	Funnel	10 Nos.		
122.	Glass rods for mixing	20 Nos.		
123.	Glass slides with cover	24 Nos.		
124.	Pipette stand	04 Nos.		
125.	Pipette 0.2 ml	06 Nos.		
126.	Pipette 0.25 ml	03 Nos.		
127.	Pipette 0.5 ml	03 Nos.		
128.	Pipette 01 ml	06 Nos.		
129.	Pipette 05 ml	06 Nos.		
130.	Pipette 10 ml	06 Nos.		
131.	Reagent (Brown Bottle) 500 ml	20 Nos.		
132.	Reagent Bottle 250 ml	30 Nos.		
133.	Reflex condenser	02 Nos.		
134.	Spatula	12 Nos.		
135.	Test tube Holders	25 Nos.		
136.	Test Tubes (pyrex) or equivalent	2500 Nos.		
137.	Test tubes brush	25 Nos.		
138.	Test tube stands	25 Nos.		
139.	Tripod stand	06 Nos.		
140.	Volumetric flask (every size)	06 Nos.		
141.	Vortex mixer	02 Nos.		
142.	Wash bottle (Germany) every size	06 Nos.		
143.	Wire guaze	12 Nos.		

LIST OF BOOKS REQUIRED FOR Departmental LIBRARIES AT BILAWAL MEDICAL COLLEGE LUMHS JAMSHORO

Department of Physiology

S#	Description	Quantity	@ Rate	Amount
144.	Guyton new addition	03 Nos.		
145.	Sherwood	02 Nos.		
146.	Ganong	02Nos.		
147.	BRS Series	02Nos.		
148.	MONOOS Physiology	03Nos.		
149.	Davidson Of Physio	02Nos.		
150.	Dorlands Medical Dictionary	01Nos.		
151	JAYPEES MEDICINE	01 Nos.		
152.	Physio MCQ/ BCQ Books	02Nos.		
153.	Bedside Techniques	02Nos.		
154.	Macleods	02Nos.		
155.	JLUMHS Journals	03Nos.		
156.	Burney Physiology Boo	01 Nos.		

Department of Anatomy

S#	Description	Quantity	@ Rate	Amount
Books for Library Of Dept. of Anatomy at Bilawal Medical College LUMHS Jamshoro				
157.	Snell clinical Anatomy by region-9th edition	02 nos.		
158.	Clinically Oriented Anatomy by KLM,7th edition	02 Nos.		
159.	Gray's Anatomy -41 edition	02Nos.		
160.	Gray's Anatomy for Students 3rd edition.	02Nos.		
161.	Last's anatomy -12th edition	02Nos.		
162.	Chaurasia's Human Anatomy -6th edition- volumes1,2& 3	02Nos.		
163.	Langman's Medical Embryology -12th edition	02Nos.		
164.	Wheater's Functional Histology-6th edition	02Nos.		
165.	Clinical neuro-anatomy-7th edition by R.snell	02Nos.		
165.	Neuro-antomy by carpenter (latest edition)	02Nos.		
166.	Dorland's Illustrated Medical Dictionary 32nd edition	02Nos.		

Department of BIOCHEMISTRY

S#	Description	Quantity	@ Rate	Amount
167.	Lippineott's Illustrated Reviews Biochemistry	03 Nos.		
168.	Biochemistry by Harper	03 Nos.		
169.	Medical Biochemistry at a Glance by salway	03Nos.		
170.	Biochemistry by MC Kee / MCKee	03Nos.		

