



**FEDERAL BOARD OF INTERMEDIATE
AND SECONDARY EDUCATION
H-8/4, ISLAMABAD**



**SCHEME OF STUDIES OF DIPLOMA OF ASSOCIATE ENGINEERING
(BIO-MEDICAL TECHNOLOGY-1st YEAR)**

S.No	Subject Name	Theory	Practical	Total Marks
1	Islamiyat/Pakistan Studies	50	--	50
2	English	100	--	100
3	Mathematics A	75	--	75
4	Mathematics B	75	--	75
5	Applied Physics	50	50	100
6	Applied Chemistry	50	50	100
7	Computer Application	50	50	100
8	Electrical Essential & Networks A	75	--	75
9	Electrical Essential & Networks B	75	--	75
10	Electrical Essential & Networks	--	50	50
11	Electronics Components, Application & Assembly	--	50	50
12	Fundamentals of Bio-Medical Equipment & Interfaces	50	50	100
13	Machine Shop, Metal work & Pipe	--	50	50
14	Technical Drawing	--	50	50
15	Electrical Wiring	--	50	50
16	Mutal e Quran Hakim	50	--	50
Total		700	450	1150



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**SCHEME OF STUDIES OF DIPLOMA OF ASSOCIATE ENGINEERING
(BIO-MEDICAL TECHNOLOGY-2nd YEAR)**

S.No	Subject Name	Theory	Practical	Total Marks
1.	Islamiyat/Pakistan Studies	50	--	50
2.	Applied Mathematics A	75	--	75
3.	Applied Mathematics B	75	--	75
4.	Business Communication	50	--	50
5.	Industrial Economics	50	--	50
6.	Measurement Instruments	100	50	150
7.	Solid State Electronics	100	100	200
8.	Digital Electronics	50	50	100
9.	Electronics Machine & Industrial Electronics	100	50	150
10.	Operational Amplifier & Application	50	50	100
11.	Patient Safety & Ultrasound Radiation Physics	50	50	100
12.	X-Ray & Film Processing Equipment	100	50	150
	Total:	850	400	1250



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**SCHEME OF STUDIES OF DIPLOMA OF ASSOCIATE ENGINEERING
(BIO-MEDICAL TECHNOLOGY-3rd YEAR)**

S.No	Subject Name	Theory	Practical	Total Marks
1.	Islamiyat /Pakistan Studies	50	--	50
2.	Industrial Management & Human Relations	50	--	50
3.	Apto Electronics Fiber Optics and Laser	50	50	100
4.	Fundamentals of Micro Processor and Interfacing Tec	100	100	200
5.	Medical Terminology, Human Anatomy and Physiology	50	--	50
6.	Sterlization Autoclaves and Medical gases Vacume System	50	50	100
7.	ECG and Ultrasound Equipments	100	100	200
8.	Bio-Chemistry and Clinic Lab Equipment	50	50	100
9.	Therapiotio Bio-Medical Equipments	100	100	200
10.	Bio-Medical Equip. Maintenance Manag. and App. of Comp. inBio-Medical Engg:	50	--	50
Total:		650	450	1100