



Syllabus for the post of JUNIOR TECHNICAL ASSISTANT
(Center for Research & Development of Scientific Instruments (CRDSI))

(A) WRITTEN TEST

Physics/Chemistry/Materials Science

1. Electricity and Magnetism
2. Waves and Optics
3. Solid State Physics
4. Basic Electronics
5. Quantum Mechanics
6. Semiconductor device
7. Crystal and microstructures of Materials
8. Properties of materials
9. Fundamentals of Organic, Inorganic and Physical chemistry
10. Spectroscopy

(B) SKILL TEST

- a) Handling high end equipment such as NMR, AFM, SEM, TEM, XRD, Magnetic Measurement Systems, XRF, DLS, ICP, UV-Vis, FTIR, Mass spectrometer, Thermal Analyzer,
- b) Handling experience on Electronic Manufacturing Devices, Diffusion-Oxidation-Annealing furnaces, Sensors and Actuators
