

Lebanon Evangelical School for Boys and Girls

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Mid Year Exams : February 2011

Please place on this sheet the contents of your course that you will be examining in your Mid Year Exam. Details are expected. Chapter numbers, section headings and the like. Please type using this template and then email the template to me using the following syntax in the Subject header of the email : TaughtSubject : Class. Thus if I were sending details of Maths in 7A the subject of the email would be : "Maths : 7A". Every Class/Subject combination should have a separate email. Thus Bassem will send me about 19 emails!

Teacher : Sami Nasr

Subject : Physics 1o A

Chapter 1: **Electrostatics.**

Quantity of charge. Number & charge of electrons.
Forces of Interaction between charges.
Distribution & Conservation of charge.

Chapter 2: **Potential Difference.**

Flow of charge.
Presence of voltage.
Law of addition of voltages.

Chapter 3: **Electric Current.**

Flow of charges & electricity in solid & liquid conductors.
Sense of the electric current.
Junction rule. (Splitting of the current)

Chapter 4: **Resistors.**

Grouping in series & in parallel.
Plotting Voltage-Current characteristic.
Voltage across resistors.
Colour Code.

Chapter 5: **Generators & Receivers.**

Plotting Voltage-Current characteristics of both generators & receivers.
Identifying their characteristics; e.m.f & b.e.m.f & their internal resistance.
Useful & total power of both.
Efficiency of both.

Chapter 6: **Electric Circuits.**

Placing generators & receivers in one circuit.

Chapter 7: **Optics**

Plane, Concave & Convex Mirrors.
Field of vision.

Reflection & refraction. Snell's law.
Total internal reflection.
Eye diseases & correction by lenses.