



St. Xavier's College
Maitighar, Kathmandu

Send Up Examination 2014

Class: XII
Subject: Physics

Full Marks: 75
Pass Marks: 30
Time: 3 hrs

Candidates are required to give their answer in their own words as far as practicable.
All the questions are compulsory. Figures in the margin indicate the full marks.

Group 'A'

1. Answer in brief. (Any four)

[4 x 2 = 8]

- A current carrying solenoid tends to contract. Explain why?
- Why are alloys constantan and manganin used to make standard resistors?
- At high frequencies, a capacitor becomes a short circuit and an inductor becomes an open circuit. Explain
- Does the thermo-electric effect obey law of conservation of energy?
- Why are strong current not preferred for electroplating?
- Ampere's circuital law can be applied to the certain case only. Justify.

2. Answer in brief. (Any four)

[4 x 2 = 8]

- It is asked to take off ornaments while taking X-ray image of the body. Why?
- Define antiparticles. Write quark combination of anti neutron.
- NAND gate is a universal gate. Explain.
- What are the roles of physics in the development of nation?
- What are radioisotopes? Also mention their applications.

3. Answer in brief. (Any one)

[1x2=2]

- Is there any limitation in the beat frequency that we observe?
- What is the change in the fundamental frequency of a tube open at both ends if half of its length is dipped in water?
- Differentiate between plane and spherical wavefronts.
- Can Foucault's method be used to find the speed of light in water? Explain.

[1x2=2]

Group 'B'

5. Answer in detail. (Any three)

[3x 4 = 12]

- Derive an expression for the current flowing through an ac circuit containing an inductor, a capacitor and a resistor in series. Obtain an expression of power factor of this circuit.
- What are the magnetic elements of the earth? Prove the relation $\cot^2 \delta = \cot^2 \delta_1 + \cot^2 \delta_2$.
- Define AC generator. Describe construction and working of it.
- Discuss the mechanism of conduction of electricity in the conductor. Derive the relation $I = V_{en}A$, where symbols have their usual meaning.

6. Answer in detail. (Any three)

[3x 4 = 12]

- State and explain Einstein's mass-energy relation with example. How is energy released estimated in the nuclear fission reaction?
- Draw the complete circuit of simple regulated power supply and hence explain how it regulates.
- Derive Bragg's equation and explain how is this equation used to determine the crystal plane spacing?
- Discuss the theory of Millikan's oil drop experiment to determine the charge of an electron.

Grade 11 2013 June Physics Paper

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