

# Physics Exam 2018

*Generated using an automated paper generation system*

*A project created by Manik and Nagesh*

Max Marks : 100

Time : 3 Hours

## Section A

*Max marks for this section are 4*

- Q1: What are insulators? Give an Example
- Q2: Define the different kinds of currents.
- Q3: Derive the formula for two heavy bodies interacting under gravity in space.
- Q4: Give 4 examples of scalar quantities
- Q5: Explain Gravity in no more than 200 words.

## Section B

*Max marks for this section are 6*

- Q1: Explain the phenomena of electricity generation because of magnetism?
- Q2: Describe Lenz's optical law.
- Q3: Describe and explain Flemings right hand rule.
- Q4: What is Ionization energy?
- Q5: What is the significance of optics in real world?

## Section C

*Max marks for this section are 10*

- Q1: What is the intensity of magnetic field experienced by a magnetic field placed in an perpendicular electric field
- Q2: What is the Torque experienced by a current carrying loop placed in a magnetic field? Explain.
- Q3: Who was Issac Newton and why is he important?
- Q4: State importance of coherent sources in the phenomenon of interference.
- Q5: Explain Kirchoff's 3 rules