

# PHYSICS

# 2014

Time: 20 Minutes

Max. Marks: 17

## SECTION "A" (MULTIPLE CHOICE QUESTION)

1. Choose the correct answer for each from the given options:
- Resistance of a wire does not depend on the:  
\* Temperature \* Length \* Area \* Electric Current
  - Two capacitors of  $3\mu\text{F}$  and  $6\mu\text{F}$  are connected in series. Their equivalent capacitance is:  
\*  $9\mu\text{F}$  \*  $2\mu\text{F}$  \*  $\frac{1}{2}\mu\text{F}$  \*  $3\mu\text{F}$
  - de-Broglie wave length is:  
(i)  $\lambda = \frac{mv}{h}$  (ii)  $\lambda = \frac{h}{mv^2}$  (iii)  $\lambda = \frac{h}{mv}$  (iv)  $\lambda = \frac{mh}{v}$
  - The minimum energy required for a pair production is:  
\* 1.02 MeV \* 102 MeV \* 10.2 MeV \* 1.02 Volt
  - Laser produces:  
\* A electron beam \* A neutron beam  
\* A coherent beam of light \* none of these
  - The mathematical expression  $\lambda_{\text{max}} \times T = \text{constant}$  is called: \* Stefan's law \* Rayleigh-Jeans law  
\* Wein's displacement law \* planck's law
  - This is not a scalar quantity:  
\* Electric flux \* Electric Intensity  
\* E.M.F \* Electric Potential
  - Heat energy can not be measured in:  
\* Joule \* B.T.U \* Kelvin \* Calorie
  - When an A.C. generator is converted into D.C. generator, slip ring is replaced by:  
\* a dynamo \* a split ring \* a field coil \* an inductor
  - The path of a neutron, moving perpendicularly through a magnetic field, is:  
\* Straight line \* Circular \* Oval \* Sinusoidal
  - Joule per coulomb is:  
\* Farad \* Henry \* Ampere \* Volt
  - The average internal energy of ideal gas is called:  
\* Pressure \* Volume \* Temperature \* Heat
  - This is a high resistance instrument:  
\* Voltmeter \* Ammeter \* Galvanometer \* Motor
  - Hole in a semiconductor is actually the:  
\* Electron \* Positron  
\* Helium nucleus \* vacancy in the valance bond
  - The energy radiated per second per unit area from the surface of a block body is directly proportional to its

# Pixl Past Paper November 2014 Physics

**Arturo Cuomo**



**Pixl Past Paper November 2014 Physics:**

## **Pixl Past Paper November 2014 Physics** Book Review: Unveiling the Magic of Language

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