

INDIAN ASSOCIATION OF PHYSICS TEACHERS

National Graduate Physics Examination 2013-2014

Day and Date of Examination : Sunday, 19th January 2014

Time : 10 AM to 1 PM

Part A - Maximum Marks : 150

Time for part A : 60 minutes

Part B - Maximum Marks : 150

Time for part B : 120 minutes

Part A

25×6=150

Mark the correct option / options (Any number of options may be correct).

Marks will be awarded only if all the correct options are marked. No negative marking.

- Q1. Which of the following vector operations make significance and is/are correct
- (a) Curl of a curl is always zero
 - (b) Curl of a grad is always zero
 - (c) Div of a curl is always zero
 - (d) Grad of a div is always zero
- Q2. The dragging force acting on a sky diver is proportional to its velocity. The variation of its velocity (v) as a function of time is described by
- (a) $V = V_T [1 - e^{-\frac{gt}{K\alpha}}]$
 - (b) $V = V_T e^{-\frac{gt}{K\alpha}}$
 - (c) $V = u + gt$
 - (d) $V = V_T e^{\frac{gt}{K\alpha}}$
- V_T being the terminal velocity & K is const.
- Q3. A common observation while performing Poiseuille's experiment for measurement of viscosity of a liquid is that the volume verses pressure curve loses linearity for increasing difference in the liquid heights in two limbs. It may be due to the fact that
- (a) Liquid flow becomes stream line
 - (b) Turbulence starts
 - (c) Speed of liquid flow exceeds critical value.
 - (d) The effect of gravity gains significance
- Q4. Under Lorentz transformations
- (a) Momentum is invariant
 - (b) $E^2 - p^2 c^2$ is invariant
 - (c) Mass-energy is invariant
 - (d) $x^2 + y^2 + z^2 - c^2 t^2$ is invariant
- Q5. Under normal conditions of pressure and temperature, the saturated water vapours exhibit a negative specific heat because
- (a) Vapours cool on heating
 - (b) Temperature increases only when heat is abstracted
 - (c) Saturation is lost on heating
 - (d) Heat must be abstracted to maintain saturation at higher temperature
- Q6. The voltage gain in a RC coupled single stage transistor amplifier
- (a) Increases with frequency
 - (b) Remains constant over entire frequency range
 - (c) Remains constant in the intermediate frequency range
 - (d) Decreases with frequency only in the higher frequency range.
- Q7. Any rigid body can acquire equilibrium if it is acted upon by
- (a) A single force
 - (b) Two non-linear forces
 - (c) Three non-coplanar forces
 - (d) Any number of forces

Grade physics 2014 Question Paper

SA Dillow



Grade physics 2014 Question Paper:

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