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PHY101 Current Final Term Papers 2018 To 2020

2020

Paper 1

#PHY101 current paper

2,3 mcq's were from past papers

Subjective

- 1) Can magnitude of a vector have negative value? Explain
- 2) What is the major similarity and difference between galvanometer and simple electric meter?
- 3) Why doesn't the Kelvin scale have any negative numbers?
- 4) Find the shift in wavelength of photons scattered by electron at ?
- 5) A ball is thrown horizontally from a height of 20m and it hits the ground with a speed that is three times its initial speed. What was the initial speed?
- 6) How can the average value of current be zero and yet the square root of the average squared current not be zero?
- 7) All objects radiate energy. Then why are we not able to see all the objects in a dark room?
- 8) A vessel is filled with gas at some equilibrium pressure and temperature. Can all gas molecules have same speed?
- 9) A copper telephone wire has essentially no sag between poles 35.0 m apart a winter day when the temperature is -20°C . How much longer is the wire on a summer day when .
- 10) Some scientists estimate that there will be 3-10 rise in earth's surface why?
- 11) Is it true to consider 'torque' as 'force' explain? A torque that causes counterclockwise acceleration is positive or negative?

Paper 2

Question No.1:

In a cool room, a metal or marble table top feels much colder to the touch than does a wood surface even though they are at the same temperature. Why?

Question No.2:

Initial is pushing but the box does not move. What is the force of static friction shown in below figure.

Question No.3:

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Is it true to say that Centre of mass and Centre of gravity are the same? either yes or no explain in each case.

Question No.4:

Describe a few examples in which the force of friction exerted on an object is in the direction of motion of the object.

Question No.5:

Is it possible for two objects to be in thermal equilibrium if they are not in contact with each other? Explain.

Question No.6:

Why was the nucleus discovered? Write the experimental setup that follows.

Question No.7:

Wave speed in a string is a function of frequency, so if the wave frequency increases, will the wave speed increase?

The End

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