PHYSICS 2011

Time: 30 minutes   Max. Marks: 17

SECTION "A" (COMPULSORY)
(MULTIPLE CHOICE QUESTIONS)

Instruction: This paper of Physics (Theory) (Class x–New Model) consists of two separate question papers, the first paper (Section "A") consists of M.C.Q's. This paper of 30 minutes duration will be given to you first of all and collected back as soon the time is over. Then you will be given the next paper of 2 ½ Hours consisting of short-Answer Questions (Section "B") and detailed-Answer Questions (Section "C")

General Instruction:

Section A: This section consists of 17 Multiple Choice Questions (M.C.Q's) and all are to be answered.

Section B: This section consists of 21 short answer questions out of which 14 are to be answered.

Section C: This section consists of 3 detailed answer questions out of which 2 questions are to be answered.

SECTION 'A' MULTIPLE CHOICE QUESTION (MCQ's)

1. Choose the correct answer for each from the given options: (17)

(i)   Amplification can be obtained by:
   (a) Radar   (b) **Transistor**
   (c) P.N.Junction   (d) Capacitor

(ii) If V=10 m/s, t=5 sec, S will be:
   (a) 15 m   (b) 5 m   (c) 2 m   (d) **50 m**

(iii) The elements having atomic Number greater than 82 are called:
   (a) Semiconductor   (b) Conductor
   (c) Insulator   (d) **Radioactive elements**

(iv) The substance placed between the conductor plates of the capacitor is called:
   (a) **Dielectric**   (b) Capacitor
   (c) Insulator   (d) Resistance

(v)   In S.I.Unit value of G is:
   (a) 6.67×10^{11} Nm^2/Kg^2 (b) **6.67×10^{-11} Nm^2/Kg^2**
   (c) 6.76×10^{11} Nm^2/Kg^2 (d) 6.76×10^{-11} Nm^2/Kg^2

(vi) Maximum beat frequency that human ear can detect is:
   (a) 6   (b) **7**   (c) 5   (d) 10

(vii) Unit of light intensity is:
   (a) N/m^2 (b) Volt   (c) **Candela**   (d) Joule

(viii) Which of the following is same as $Kg.m/s^2$:
   (a) joule   (b) **Newton**   (c) Pascal   (d) Watt

(ix) Loudness of sound depends upon:

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   (a) Area of vibration   (b) Amplitude
   (c) Frequency   (d) **All of them**

(x)   Rate of motion in specific direction is called:
   (a) Speed   (b) **Velocity**
   (c) Acceleration   (d) Power

(xi) Equivalent weight of 10 kg is:
   (a) **98 N**   (b) 980 N   (c) 100 N   (d) 196 N

(xii) Which of the following never gives a real image:
   (a) **Plane mirror**   (b) Concave mirror
   (c) **Convex mirror** (d) Human eye

(xiii) One micro metre is equivalent to:
   (a) $10^{-3}m$ (b) **$10^{-6}m$**   (c) $10^{-9}m$ (d) $10^{-12}m$

(xiv) Refractive index of water is:
   (a) 1.5   (b) 1   (c) 2.4   (d) **1.33**

(xv) Human eye is similar to:
   (a) Microscope   (b) Telescope
   (c) **Camera**   (d) Periscope

(xvi) Kitab-Al-Manazir is written by:
   (a) **Ibn-al-Haitham**   (b) Yaqoob-al-Kindi
   (c) Al-Beruni   (d) Moosa Kawarzmi

(xvii) Acceleration of 1 kg ball for downward motion is:
   (a) **9.8 m/s^2**   (b) -9.8 m/s^2
   (c) 1 m/s^2 (d) 98 m/s^2