

# USWA COLLEGE ISLAMABAD

Entry Test

Class XI

## Paper Physics

Time Allowed : 30 Minutes

Total Marks:30

Name : ..... Father's name:.....

Roll No . ..... Group:.....

**Q.1 Choose the correct answer i.e. A / B / C / D. Each part carries equal marks.**

- I. Least count of digital Vernier caliper is -----mm  
(a)0.01 (b)0.1 (c)0.001 (d)1.00
- II. If distance between the masses is halved the gravitational force is -----  
(a)doubled (b)halved (c)quarter (d)four times
- III. Human body temperature in kelvin is  
(a)37 (b)98.6 (c)310 (d)300
- IV. If walls of rooms are 20cm thick and they are reduced to 10cm then thermal conductivity is  
(a)doubled (b)halved (c)quarter (d)four times
- V. 1MWh=-----  
(a)3.6KJ (b)3.6MJ (c)3.6GJ (d)3.6TJ
- VI. If length of pendulum is doubled its frequency is  
(a)doubled (b)halved (c)quarter (d)four times
- VII. Half life of carbon is 5730 years how much time (years) it takes to become 1/16 of sample  
(a)5730 (b)11460 (c)17190 (d)22920
- VIII. Minimum voltage required by electron gun to emit electron is  
(a)2V (b)4V (c)6V (d)8V
- IX. Which of following quantity is not changed during refraction?  
(a)its direction (b) its speed (c) its frequency (d) its wavelength
- X. Which one is non ohmic  
(a)Iron (b)copper (c)silver (d) silicon
- XI. If separation of plates of capacitor is doubled its capacitance is  
(a)doubled (b)halved (c)quarter (d)four times
- XII. The value of gravitational constant "G"at One Earth radius is  
(a)doubled (b)halved (c)quarter (d)remains same

**Q. 2 Attempt any SIX (6) questions. (6 X 3 = 18)**

1).Can a body in motion be in equilibrium? Verify your answer by strong reason.

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