MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	At what place , motion of a simple pendulum will be the slowest:	A. On the surface of the earth B. All of the centre of earth C. At the quarter D. Both B and C
2	Examples of polymers are	A. Polythene B. Polystyrene C. Nylon D. All of them
3	Which of the following pair of quantities have the same units?	A. stress, Young's modulus B. Young's modulus, bulk modulus C. Stress, bulk modulus D. All of them
4	The ability of body to return to its original shape (after the force is removed) is called:	A. Elasticity B. Ductility C. Stress D. Strain E. Any of these
5	A ball takes ‘t’ second to fall from a height □□ and ‘2t’ second to fall from a height □□ then h1/h2 is:	A. 2 B. 4 C. 0.5 D. 0.25
6	Huygen's principle states that:	A. Light travels in straight line B. Light has dual nature C. Either of these D. None of these
7	Most motorbikes have _____ cylinder/s engine but cars usually have _____ cylinders on the same crankshaft.	A. Four , Six B. One , four C. two , five D. None of these
8	The theory which explains the vast diversity in an electrical behaviour of all types the materials is	A. Free electron theory B. Band theory C. Theory based as chemical properties D. None of these
9	The least distance of he distinct vision is	A. 20 cm B. 22 cm C. 25 cm D. 30 cm
10	Given that grating element = 0.2 x 10^{-3}cm in case of a diffraction grating. Then number of lines per centimeter will be	A. 500000 B. 5000 C. 50 D. 5
11	Spring constant has dimension	A. [MT⁻¹] B. [MT⁻²] C. [MT⁻³] D. [M⁻²T^o]
12	All of the following have been expressed in proper units except:	A. Energy = kg m sec⁻² B. Pressure = N -m² C. Area = m² D. density = kg - m³
13	The motion of molecules in gases i:	A. Orderly B. Random C. Circular D. All of these
14	Which characteristics of wave, established the Huygen's wave theory in 1801?	A. polarization B. interference C. propagation D. all of them
15	Which one of the following statements regarding electrostatics is wrong?	A. Charge is conserved B. Charge is quantized C. There is no field near an isolated

15	Which one of the following statements regarding electrostatics is wrong?	charge at rest D. A moving charge produces both electric and magnetic fields
16	If focal length of objective is increased	A. Magnifying power of compound microscope decreased B. Magnifying power of astronomical telescope increases C. The diameter of the objective lens D. None of these
17	A line which represents the direction of travel of a wave is known as:	A. Spherical wavefront B. Locus C. Ray D. Either B or C
18	The scattering of X-rays from atoms in a crystalline lattice gives rise to	A. Interference B. Diffraction C. Reflection D. None of these
19	Polymers are the physical combinations of carbon with:	A. Oxygen only B. Hydrogen C. Nitrogen D. All of these E. None of these
20	The typical wavelength of light source in transmitter is	A. 1.1 µm B. 1.2 µm C. 1.3 µm D. 1.4 µm