MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	The distance covered by a body in time ‘t’ starting from rest is:	A. 1/2 □² B. vt C. □□² D. □□₂
2	It is a common characteristic of all types of wave motion that	A. Particles move up and down B. Particles move back and forth C. Energy is transferred without the transport of particles D. A material medium transmits the disturbance
3	Amorphous solids:	A. Have definite melting point B. Are called glassy solids C. Have no definite meting point D. Both B and C E. Both A and C
4	The number of molecules in one mole of gas is equal to:	A. Avogadro number N_A B. Gas constant R C. Boltzmann constant k D. None of these
5	When the length and area of cross-section both are doubled, then its resistance:	A. Will become half B. Will remain the same C. Will be doubled D. Will become four times
6	Wave front is the locus or all points in vibration are in the same	A. Frequency B. Phase C. Wavelength D. All of these
7	The fiber of which refractive index _____ gradually as move from central core to its periphery is called _____ index fiber	A. Decreases, multi-mode graded B. Increases, single mode step C. Either of A or B D. Increases, multi-mode step
8	The lower refractive index the fibre core has	A. 1.48 B. 1.40 C. 1.54 D. 1.42
9	The distance between the centres of two consecutive bright fringes (or dark fringes) is called	A. wavelength B. fringe width C. amplitude D. path difference
10	If velocity time graph is a straight line parallel to time axis then body is	A. Moving with zero acceleration B. Moving with constant velocity C. Covering equal displacement in equal intervals of time D. All of these
11	A spherical wavefront is that which has	A. A source B. A point source C. An extended source D. None of these
12	A _____ lens is used in the apparatus to get Newton,s rings	A. Plano-concave B. Plano-convex C. Convexo-concave D. Double convex
13	The different parts of spectrometer	A. Collimator B. Turn table C. Telescope D. All of these
14	The electrical resistance of mercury disappeared below temeprature	A. 2.1 K B. 3.4 K C. 4.1 K D. 4.2 K

15	There is a regular arrangement of molecules in	A. amorphous solids B. polymeric solids C. crystalline solids D. none of these
16	When 'θ' is small then	A. tan θ ≈ sin θ B. cos θ ≈ sin θ C. sin θ ≈ tan θ D. None of these
17	Which of the following is not a base unit:	A. Square meter B. Cubic meter C. Candela D. All of these
18	In superconductors, the resistance of a material drops to zero and no	A. Power is dissipated B. Energy is dissipated C. Current is dissipated D. None of these
19	Electromagnetic waves transport:	A. Energy only B. Momentum C. Both A and B are correct D. None is correct
20	Single mode step index fibre has	A. Thick core and large cladding B. Thick core and shorter cladding C. Thin core and shorter cladding D. Thin core and larger cladding