MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	0.0001210 has _____ significant figures.	A. Four B. three C. Seven D. Eight
2	In Young's double slit experiment fringe width (or fringe spacing) depends	A. inversely on wavelength B. directly on wavelength C. directly on square of wavelength D. inversely on square of wavelength
3	The diode charactristics curve is plot between	A. I & t B. V& t C. V& I D. None
4	During a negative β-decay	A. An atomic electron is ejected B. A neutron in the nucleus decays emitting an electron C. An electron which already present within the nucleus is ejected D. A part of binding energy of nuclei is converted into electron
5	After curie temperature iron is	A. Ferromgnetic B. Diamagnetic C. Paramagnetic D. None
6	A wave which consists of a single, non-repetitive disturbance is called a	A. Continuous wave B. Longitudinal wave C. Pulse D. Transverse wave
7	Capacitance of a capacitor does not depend upon	A. Separation between plates B. Thickness of the plates C. Area of the plates D. Medium between the plates
8	Why laser rays are used to measure long distance?	A. Laser rays propagate in a straight B. Laser rays are not absorbed C. Laser rays are most coherent waves D. Laser rays are high velocity waves
9	The diffraction is found to be prominent when the wavelength of light is	A. small as compared with the size of obstacle B. large as compared with the size of obstacle C. equal as compared with the size of obstacle D. Very small as compared with the size of the obstacle
10	S.I unit of stress is	A. N/m B. N m C. Nm⁻² D. newton
11	A person holds a bucket of weight 60N. He walks 7 m along the horizontal path and then climbs up a vertical distance of 5 m. The work done by the man is:	A. 300 N-m B. 420 N-m C. 720 N-m D. none of these
12	What is the SI unit of Tensile strain?	A. Nm⁻² B. Jm⁻² C. Nm⁻¹ D. Being a number, it has no unit
13	In Michelsion's interoferometer, if the moveable mirror is moved through a distance 0.05 mm and 500 finges are observed, then the wavelength of light used is	A. 1 x 10⁻⁷m B. 2 x 10⁻⁷m C. 1.5 x 10⁻⁷m D. 1 x 10⁻⁸m
14	When an observer moves towards a stationary source with a speed equal to 1/5 timesof	A. 20% B. 40%

	speed of sound, the percentage increase in the frequency of sound is:	C. 5% D. 10%
15	In an interference fringes pattern the fringes are	A. Equally spaced B. Wider near the centre and narrower away from it C. Narrower near the centre and wider away from it D. None of these
16	The range of the diameter of core in multimode graded index fibre is	A. 50 to 100 µm B. 50 to 1000 µm C. 50 to 1000 µm D. None of these
17	The rate of decay radioactive substance:	A. Is constant B. Decrease exponentially with time C. Varies inversely with time D. Decrease linearly with time
18	Each atom in a metal crystal:	A. Remains fixed B. Vibrates about a fixed point C. Moves randomly D. Rotates about the centre of the crystal E. None of these
19	The time period of revolution of geostationary satellite is	A. 1440 minutes B. 24 minutes C. 84 minutes D. none of these
20	Who devise the experimental arrangement in 1801 for studying interference effects of light	A. Huygen B. Young C. Newton D. None of these