

MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	The angle with the horizontal at which an underwater swimmer will see the setting sun is	A. 91° B. 32° C. 49° D. 69°
2	Finger prints on paper are identified by sprinkling fluorescent powder on it and observing it under	A. Sun light B. Sodium light C. Infrared D. UV
3	Fringe spacing in YDS experiment will be maximum if we use	A. Red light B. Green light C. Violet light D. Blue light
4	What is the main cause of the shinning of diamond?	A. Reflection B. Refraction C. Total internal reflection D. Dispersion of light
5	What will be efficiency of carnot engine when it is operated between the temperatures 47°C and 127°C :	A. Reversible B. Irreversible C. Sometimes A and B D. None of these
6	The de-Broglie wavelength of the particle of mass m and energy E is:	B. λ C. $\lambda = \frac{h}{\sqrt{2mE}}$ D. $\lambda = \frac{h}{\sqrt{2mE}}$
7	The distance between two concentric wave fronts is	A. A wave length B. A half wavelength C. Zero D. None of these
8	The speed of light in other material is always	A. Greater than c B. Less than c C. Equal to c D. None of these
9	Shear modulus for tungsten is	A. 50 B. 100 C. 150 D. 200
10	The spacing between lines of diffraction grating is	A. Opaque B. Transparent C. Semi-transparent D. None of these
11	The gravity does no work, when the body moves:	A. Horizontally B. Vertically upwards C. Vertically downward D. At an angle of 45° with horizontal
12	For which color of light the refractive index of glass is larger	A. Red B. Green C. Blue D. Violet
13	Light traveling through vacuum enters water which characteristic of light does not change	A. Velocity B. Frequency C. Wavelength D. Amplitude
14	A soap bubble is give a negative charge, then its radius:	A. Decrease B. Remains same C. Increases D. Bubble will disappear
15	Which of the following does not have the same units:	A. Work B. Heat C. Kinetic energy D. Power

16	A light and a heavy body have equal momenta. Which one has greater K.E?	A. The light body B. The heavy body C. The K.E are equal D. Data is incomplete
17	The cause of mirage observed in desert is	A. Refraction B. Reflection C. Scattering D. Total internal reflection
18	If light of low wavelength is used in Young's double slit experiment then width of the fringe will	A. Decreases B. Increase C. Not fixed D. No change
19	An object is placed between two parallel mirrors the number of images formed is	A. 2 B. 4 C. 8 D. Infinite
20	One angstrom equal:	A. 10^{-8} m B. 10^{-9} m C. 10^{-10} m D. 10^{-11} m