

## MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	G.P Thomson revealed:	A. Particle nature of electron B. Dual nature of electron C. Wave nature of electron D. Electromagnetic nature of electron
2	The unpolarized light is	A. An ordinary incandescent bulb B. Sun C. Moon D. All of these
3	The wavelength of X-rays is about	A. $10^{-14}$ m B. $10^{-10}$ m C. $10^{-6}$ m D. $10^{-4}$ m
4	When ' $\theta$ ' is small then	A. $\tan \theta \approx \sin \theta$ B. $\cos \theta \approx \sin \theta$ C. $\sin \theta \approx \tan \theta$ D. None of these
5	Multimode graded index fibre core has diameter of	A. 40-200 $\mu$ m B. 50-1000 $\mu$ m C. 50-150 $\mu$ m D. 50-300 $\mu$ m
6	The SI unit of stress is same as that of	A. Momentum B. Pressure C. Force D. Length
7	The disadvantage of the step-index fibre can be reduced by	A. graded index fibre B. non-graded index fibre C. both of these D. none of these
8	The light source used in multimode step index fibre is	A. A monochromatic source B. Red light C. White light D. None of these
9	For a particle moving in uniform circular motion	A. Velocity is transverse and acceleration is radial B. Velocity is radial and acceleration is transverse C. Both velocity and acceleration are radial D. Both velocity and acceleration are transverse
10	The greatest stress that a material can endure without losing the proportionality between stress and strain is called	A. Plasticity B. Breaking point C. Proportional limit D. Strain
11	Which of the following statement is true about soft X-rays?	A. They have large wavelength B. They have high energy C. They have low energy D. Both A and C
12	The total magnification of a combination of two lenses having individual magnification $M_1$ and $M_2$ is	A. $M_1 + M_2$ B. $M_1 M_2$ C. $M_1 - M_2$ D. $M_1 / M_2$
13	The magnifying power of an instrument is expressed in	A. Radians B. Degrees C. No units D. None of these
14	How many photons per second does a one-watt bulb emit if its efficiency is 10% and the wavelength of light is 500 nm:	A. $2.53 \times 10^{17}$ B. $2.53 \times 10^{19}$ C. $7.5 \times 10^{19}$ D. $7.5 \times 10^{17}$

15	The resolving power of telescope depends on	A. Focal length of eye lens B. Focal length of objective lens C. Length of the telescope D. Diameter of the objective lens
16	Which of the material is brittle ?	A. Steel B. Low carbon steel C. High carbon steel D. None of these
17	The maximum stress that a body can tolerate is called	A. UTS B. Permanent stress C. Elastic strength D. Plastic stress
18	A human eye can detect the electromagnetic radiations of the type:	A. Infrared radiations B. Far- infrared radiations C. X-rays radiations D. Red radiations
19	Geo stationary satellite remains	A. Stationary B. Both "A" & "B" C. Appear D. None of them
20	Work done in raising a box depends on:	A. How fast it is raised B. The strength of the man C. The height by which it is raised D. None of the above