

## MDCAT Physics Chapter 15 Modern Physics MCQ's Test

Sr	Questions	Answers Choice
1	Photoelectric effect and Compton effect prove the:	A. Wave nature of light B. Particle nature of light C. Dual nature of light D. Dual nature of light
2	Photo cells are used for :	A. Security and counting system B. Automatic door system C. Automatic street lighting D. All of these
3	A human eye can detect the electromagnetic radiations of the type:	A. Infrared radiations B. For- infrared radiations C. X-rays radiations D. Red radiations
4	Compton Effect makes the use of the law of conservation of:	A. Energy B. Momentum C. Charge D. Both (a) & (b)
5	Davisson and Germer, in their experiment used:	A. Nickle crystal B. Lead crystal C. Graphite crystal D. Glass
6	Rest mass energy of electron is:	A. 1.02 MeV B. 0.51 MeV C. 931 MeV D. 200 MeV
7	The number of electrons emitted depend upon	A. Colour of target surface B. Shape of surface C. Frequency of incident light D. Intensity of incident light
8	In a photocell, sodium and potassium emit electrons for:	A. Visible light B. Infrared light C. Ultraviolet light D. All of these
9	Which of the particles, electron, proton and neutron moving with same speed has longest wave length?	A. Electron B. Proton C. Neutron D. All have same
10	The reverse process of photo-electric effect is called:	A. Pair production B. Compton effect C. Annihilation of matter D. X-rays
11	J.J Thomson finds:	A. Particle nature of the electron B. Dual nature of electron C. Wave nature of electron D. Electromagnetic nature of electron
12	Diffraction pattern has also been observed for:	A. Proton B. Neutron C. Hydrogen atom D. All of them
13	Photo cells is a device which convert light into:	A. Wave nature B. Particle nature C. Particle wave nature D. Dual nature
14	The energy of photon of energy 1 eV is:	A. 1240 nm B. 1040 nm C. 1000 nm D. 620 nm
15	De-Broglie received the Nobel prize in	A. 1929 B. 1937 C. 1928 D. 1924

16	Davisson and Germer received the Nobel prize for their work on:	<p>A. Wave nature of particle B. Corpuscular nature of wave C. Dual nature of particle D. All of them</p>
17	The minimum energy required by an electron to eject from metal surface is known as:	<p>A. Photo energy B. Critical energy C. Threshold energy D. Work function</p>
18	Moving photons posses:	<p>A. Energy B. Momentum C. Wavelength D. All of these</p>
19	Interference and diffraction confirm:	<p>A. Particle nature B. Wave nature C. Dual nature D. None of these</p>
20	Interference and diffraction of light confirms its:	<p>A. Particle nature B. Dual nature C. Wave nature D. Electromagnetic nature</p>