

## MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	If focal length of objective is increased	A. Magnifying power of compound microscope decreased B. Magnifying power of astronomical telescope increases C. The diameter of the objective lens D. None of these
2	Significant figures in 5432 are:	A. Two B. Three C. Four D. Five
3	In Young's double slit experiment, the fringe width depends on	A. wavelength of the light used B. distance between the slits and screen C. distance between the slits D. all of them
4	The work done to keep the satellite in the given orbit is.	A. Zero B. infinity C. unit D. can't be decided
5	Mirage is a phenomenon due to	A. Reflection of light B. Refraction of light C. Total internal reflection of light D. Diffraction of light
6	The minimum number of lenses used in compound microscope is	A. 1 B. 2 C. 3 D. 4
7	Shear modulus for steel is	A. 20 B. 84 C. 95 D. 202
8	In YDS experiment, if the distance between the slits and also the distance between slits and screen is doubled, the fringe width:	A. Becomes doubled B. Becomes 4 times C. Is halved D. Remains the same
9	When the shear stress and shear strain are involved, then their ratio is called	A. Young's modulus B. Bulk modulus C. Shear modulus D. all of them
10	The law, governing the force between electric charges is known as:	A. Ampere's law B. Ohm's law C. Coulomb's law D. Faraday's law
11	The light signal in graded index fibre is totally confined due to	A. Total internal reflection B. Continuous refraction C. Both a and b D. Dispersion
12	Which phenomenon of light conclusively prove that light waves are transverse waves	A. Reflection B. Diffraction C. Interference D. Polarization
13	When the same object is viewed at a shorter distance the image on the retina of eye is _____ and so the object appears _____	A. Greater, small B. Smaller, smaller C. Smaller, larger D. Greater, larger
14	According to Young s experiment if frequency of light used is halved then fringe width becomes	A. 2/3 B. Double C. Remains constant D. Fringe

15	What is the time taken by light to travel 4 mm in a material of refractive index 3	B. $2 \times 10^{-11}$ s C. $16 \times 10^{-11}$ s D. $8 \times 10^{-11}$ s
16	Bulk modulus for lead is	A. 2.9 B. 7.7 C. 9.3 D. 15.6
17	A radioactive nucleus can emit:	A. Electron B. $\gamma$ particles C. Positron D. Any of these
18	The most penetrating radiations out of the following is that of	A. $\gamma$ -rays B. $\beta$ -rays C. $\alpha$ -particles D. X-rays
19	If both the length and radius of rod are doubled, then the modulus of elasticity will:	A. Increase B. Decrease C. Remains the same D. Doubled
20	The object is placed at the principle focus of a simple microscope if the focal length of the lens is 2cm what is the magnifying power of the microscope	A. 13.5 B. 12.5 C. Infinity D. None of these