

NAT II Physical Science Physics

Qr.	Questions	Answers Choice
Sr	Questions	
1	The force between two charges 0.06 m apart is 5 N. If each charge is moved towards the other by 0.01 m, then the force between them will become	A. 7.20 N B. 11.25 N C. 22.50 N D. 45.00
2	A pendulum clock set to give correct time in Karachi is taken to Quetta. It would give correct time if	A. The mass of the pendulum is increased B. The mass of the pendulum is decreased C. The length of the pendulum is increased D. The length of the pendulum is decreased
3	The velocity of a particle at an instant is 10 m/s and after 5s the velocity of the particle is 20 m/s. The velocity 3s before in m/s is:	A. 8 B. 4 C. 6 D. 7
4	The length of a telescope is 36 cm. The focal lengths of its lenses can be	A. 30 cm, 6 cm B30 cm, -6 cm C. 30 cm, -6cm D30cm, 6cm
5	A cable that can support a load W is cut into two equal parts. The maximum load that can be supported by either part is:	A. W/4 B. W/2 C. W D. 2W
6	For obtaining appreciable extension, the wire should be	A. Short and thin B. Long and thin C. Short and thick D. Long and thick
7	If the metal bob is a simple pendulum is replaced by a wooden bob, then its time period will	A. Increas B. Decreases C. Remain the same D. First A then B
8	In which region of electromagnetic spectrum does the Lyman series of hydrogen atom lie	A. Ultraviolet B. Infrared C. Visible D. X-ray
9	The magnetic moment of a circular coil carrying current is	A. Directly proportional to the length of the wire in the coil B. Inversely proportional to the length of the wire in the coil C. Directly proportional to the square of the length of the wire in the coil D. Inversely proportional to the square of the length of the wire in the coil
10	Which of the following sources give discrete emission spectrum?	A. Incandescent electric bulb B. Sun C. Mercury vapour lamp D. Candle
11	Which of the following is not thermo dynamical function?	A. Enthalpy B. Work done C. Gibb's energy D. Internal energy
12	When the length of a microscope tube increase, its magnifying power	A. Decreases B. Increases C. Does not Change D. May increase or decrease depending on the observer and the place of observation
13	How does the Young's modulus vary with the increase of temperature?	A. Decrease B. Increases C. Remains constant D. First increases and then

		decreases
14	The percentage errors in the measurements of mass and speed are 2% and 3% respectively. How much will be the maximum error in the estimate of the kinetic energy obtained by measuring mass and speed	A. 11% B. 8% C. 5% D. 1%
15	A couple produces	A. Purely linear motionB. Purely rotational motionC. Linear and rotational motionD. No motion
16	A moving charge will gain energy due to the application of	A. Electric field B. Magnetic field C. Both of these D. None of these
17	Planck's constant has the dimensions of:	A. Energy B. Momentum C. Frequency D. Angular momentum
18	The essential distinction between X-rays andγ-rays is that	A. y-rays have smaller wavelength than X-rays B. y-rays emanate from nucleus while X-rays emanate from outer part of the atom C. y-rays have greate ionizing power than X-rays D. y-rays are more penetrating than X-rays
19	Huygen's wave theory of light cannot explain	A. DiffractionB. InterferenceC. PolarizationD. Photoelectric effect
20	What remains constant in the field of central force?	A. Potential energy B. Kinetic energy C. Angular momentum D. Linear momentum