

# PHYSICS

Time: 30 Minutes 10th Class Karachi Board Max. Marks: 19

## SECTION "A" (MULTIPLE CHOICE QUESTIONS)

1. Choose the correct answer for each from the given options: (19)

1. Unit of light intensity is:  
• Pascal • Volt • Candela • Joule
2. The circumference of earth was determined by:  
• Mohd. Bin Musa Al-Khwarzami • Al-Beruni  
• Yaqub Al Kindi • Abu Ali Hassan Ibn-Al-Haitham
3. In British Engineering system 1 horsepower (hp) =  
• 560 ft.lb/s • 505 ft.lb/s • 550 ft.lb/s • 546 ft.lb/s
4. It is a vector quantity:  
• Distance • Displacement • Speed • Mass
5. Archimedes principle is used to determine:  
• Specific gravity • Specific heat  
• Specific resistance • Specific radiation
6. The concave lens is used:  
• for the correction of Short sightedness • Aberration  
• for the correction of long sightedness  
• for clear picture
7. Artificial satellites the necessary acceleration is provided by:  
• Gravitational force • Frictional force  
• Coulomb's force • Centrifugal force
8. A form of disturbance which travels through a medium due to periodic motion of particle medium about their mean position is called:  
• Time period  
• Resonance • Frequency • Wave motion
9. If  $I = 1.5$  amp,  $R = 10$  ohm then the voltage (V) is:  
• 10 volts • 1.5 volts • 150 volts • 15 volts
10. The rate of change of velocity is called:  
• Torque • Acceleration • Momentum • Speed
11. Shunt Converts a Galvanometer into:  
• a Voltmeter • an Ammeter  
• a Wattmeter • a Calorimeter
12. The unit of coefficient of friction is:  
• Newton • Kilogram • Metre • None
13. An inclined plane 5 m long has one end raised by 1 m its mechanical advantage will be:  
• 15 • 5 •  $1/5$  •  $1/15$
14. If two parallel forces have the same directions they are called:  
• Unlike parallel forces • Couple  
• Rectangular forces • Like parallel forces
15. The temperature of a substance changes from  $-20^{\circ}\text{C}$  to  $20^{\circ}\text{C}$  then the temperature change in Kelvin's scale is:  
• 0K • 20K • 40K • 293K
16. Small drops of rain water disperse sun light into different colours is called:  
• Dispersion • Interference  
• Rainbow • Spectrum
17. Amplification can be obtained by:  
• Radar • Transistor • P.N. Junction • Capacitor
18. The image found in a plane mirror is:  
• real  
• inverted • virtual and erect • real and inverted
19. Which of the following is more penetrating?  
•  $\alpha$  - rays •  $\beta$  - rays •  $\gamma$  - rays • X - rays