



RAMAGYA SCHOOL, NOIDA
IV/SCIENCE/2017-18
OLYMPIAD PRACTICE WORKSHEET

Concept based Questions

Q.1) Which of the following is a non contact force?

- a) Gravity b) friction c) elastic d) spring force

Q.2) A moving body slows down or stops due to its _____

- a) Weight b) friction c) energy d) force

Q.3) Tools which makes our work easier are known as _____ machine

- a) Simple b) complex c) complicated d) none of these

Q.4) _____ is the ability to do work.

- a) Energy b) Force c) work d) friction

Q.5) A _____ is made from a wheel and a rod.

- a) Lever b) pulley c) screw d) wheel and axle

Q.6) A _____ looks like a nail with grooves cut into it.

- a) Lever b) pulley c) screw d) wheel and axle

Q.7) The _____ is known a huge cluster of stars is known as _____

- a) Solar system b) Andromeda c) galaxy d) Star system

Application Based Questions

Q.8) When we beat a drum, _____ energy is changed to sound energy

- a) electrical b)geothermal c)muscular d)solar

Q.9) Which planet has blue green colour?

- a) Venus b)Neptune c) Jupiter d) Saturn

Q10) Which of the following statement is true?

- a)Sun is the biggest and closest start to the earth.
b)Sun is the closest but not the biggest star near to the earth.
c)Sun is neither biggest nor closest start to the earth.
d)Sun is made up of rocks.

Q.11) Smother surface provides _____ friction.

- a)more b)less c) equal d)zero

Q12) Pick the correct statement

- a) it can be seen but cannot be felt b) Energy is not required to exert force.
c) it is pull or push. d) it is a form of matter.

Q13) Which of the following is not a phase of moon?

- a) New b) Gibbous c) triton d) Crescent

Q14) In working of an electric fan electric energy is converted into _____ energy.

- a) Light b) Friction c) Solar d) Mechanical

HOTS Questions

Q15) Select the odd one out

- a) Earth b) Mars c) Plutoid d) Jupiter

Q.16) Galaxy is nothing but a cluster of _____.

- a) Planets b) moons c) gases d) stars

Q.17) The imaginary line which divides earth into two halves is known as _____.

- a) Poles b) Axis c) Orbit d) Equator

Q18) Time taken by earth to complete one revolution = _____.

- a) 3600 hours b) 24 hours c) one year d) two years

Q19) Which measuring unit do astronomers use to measure distances in space?

- a) Meters b) light year c) Kilometers d) Miles

Value Based Question

Q20) Rohit's Father has placed a solar panel on their roof to save electricity. His father explained him the solar energy is a _____ source of energy and is _____ free.

- a) Non renewable, pollution b) renewable, pollution
c) renewable, noise d) None of the above.