PHYSICS 10 Class 2018

Time: 30 Minutes   Max. Marks: 19

SECTION "A" (MULTIPLE CHOICE QUESTIONS)

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

1. Laser is belongs to:
   - Nuclear Physics
   - <u>Atomic Physics</u>
   - Solid-state Physics
   - Astro Physics

2. In Uranium isotope $_{92}U^{238}$ is the number of Neutron is:
   - 92
   - <u>146</u>
   - 238
   - 330

3. Kg m/s is same as:
   - <u>N.s</u>
   - N/s
   - N.m
   - N/m

4. The product of mass and acceleration is called:
   - Momentum
   - Force
   - Work
   - Torque

5. A 25 N force acts along the x-axis, its y component is:
   - <u>25 N</u>
   - -25 N
   - 0 N
   - 5 N

6. If a body is moving with uniform velocity it is said to be in:
   - Neutral equilibrium
   - <u>Dynamic equilibrium</u>
   - Static equilibrium
   - Unstable equilibrium

7. One horse power = --------- watt:
   - <u>746</u>
   - 550
   - 674
   - 505

8. The rate of work doing is called:
   - velocity
   - acceleration
   - <u>power</u>
   - momentum

9. The mechanical advantage of a movable pulley is:
   - 1
   - <u>2</u>
   - 3
   - 4

10. The formula for volume of sphere is:
    - $\pi \gamma^3 \ell$
    - $\pi \gamma^2 \ell$
    - <u>$4/3 \pi \gamma^3$</u>
    - $\frac{3}{4} \pi \gamma^3$

11. When water is changed into ice, it:
    - <u>expands</u>
    - contracts
    - becomes lighter
    - becomes heavier

12. In an elastic spring, simple harmonic motion is produced due to:
    - <u>restoring force</u>
    - K.E. of spring
    - Weight of spring
    - mass of spring

13. The image formed in a plane mirror will be:
    - real
    - inverted
    - <u>virtual and erect</u>
    - real and iverted

14. Optical fiber is the paractical application of:
    - Polarization
    - Refraction
    - interference
    - <u>Total internal reflection</u>

15. Electromagnetic waves carries:
    - Wavelength
    - Frequency
    - Charge
    - <u>Energy</u>

16. Coulomb per volt is called:
    - Ampere
    - <u>Farad</u>
    - Watt

17. The relation between electric current and magnetic field was discovered by:
    - Newton
    - Faraday
    - <u>Oersted</u>
    - Fleming

18. The emission of rays from the nucleus is called a/an:
    - Chemical process
    - atomic process
    - <u>radioactivity</u>
    - atomic dispersion

19. 1 micro coulomb = --------- coulomb:
    - <u>10^{-6}</u>
    - 10^{-3}
    - 10^{-9}
    - 10^{-12}