

PAF Physics Online Test 1

1. The light reaches on earth from sun through—?
 - Retardation
 - ✓ **Radiation**
 - Conduction
 - Vibration
2. Between tow electric charges, force is directly proportional—?
 - ✓ **Product of their charges**
 - Square of distance between them
 - Product between masses
 - Distance between them
3. The increase in temperature of a body in unit mass up to $1\text{c}0$ is called—?
 - ✓ **Specific heat**
 - Latent hat of fusion
 - Latent heat of evaporation
 - External heat capacity
4. When a body is placed between convex mirror and its focus point then its image will be-----?
 - Smaller
 - ✓ **Real & inverted**
 - Virtual
 - Real
5. In any circuit current is directly proportional to—?
 - Length of wire
 - Area of wire
 - Resistance
 - ✓ **Potential difference**
6. The ray falling on the center of mirror passes through—?
 - ✓ **Parallel**
 - Focus
 - Focal length
 - Normal
7. Limiting friction is always— then rolling friction?
 - ✓ **Less than**
 - Coefficient
 - Equal to
 - Greater
8. The potential energy of a body changes—?
 - Directly with mass and inversely with height
 - ✓ **Directly with both mass and height**
 - Diversely with mass and directly with height
 - None of these
9. Total internal reflection takes place when—?

- Enter from denser medium to rare medium
- None of these
- Greater than critical angle
- ✓ **Less than critical angle**

10. When a body goes up with 2g acceleration then —?

- Double the acceleration of body
- ✓ **Double the length of body**
- Double the mass of body
- Double the velocity of body

11. The strength of a magnet depends upon——?

- Length of coil
- ✓ **Both a&b**
- No.of turns of coil
- Current through coil

12. When tow planets——then the gravitational attraction becomes greater?

- Turn into another galaxy
- Move apart
- Collide together
- ✓ **Move closer**

13. Transistor consists on——junction?

- NPN
- PNP
- Rectifier
- ✓ **Both a&b**

14. If a body is dropped from——it meets the ground after 3sec?

- 19
- 25
- ✓ **44.1**
- 100

15. The work of a body is equal to the product of——?

- Mass and acceleration
- Velocity and time
- ✓ **Force and displacement**
- Mass and velocity

16. Beta rays consists on ——?

- Beta rays
- ✓ **Negatively charged in vacuum**
- Positively charged in vacuum
- Gamma rays

17. The density of body is increased by——?

- Increase in its specific area
- Decreasing its mass
- Increasing its mass
- Increasing its velocity

18. The ratio of output and input is called——?
- ✓ **Efficiency**
 - Power
 - Velocity
 - Mechanical advantage
19. A body moving in constant acceleration ——?
- ✓ **Overs equal distance in equal intervals of time**
 - Change in velocity in length
 - Remains in constant speed
 - Increase in instantaneous velocity
20. If we do below the center of gravity of body then it is— equilibrium?
- Neutral
 - Temporary
 - ✓ **Stable**
 - Unstable
21. In parallel circuit resistances——?
- Equal to sum of current
 - ✓ **Equal to sum of resistance**
 - Equal to sum of voltage
 - Less than resistance
22. The pitch depends upon——?
- ✓ **Frequency**
 - Echo
 - Speed
 - Amplitude
23. The rainbow is a result of——?
- Diffraction
 - Interference
 - ✓ **Refraction**
 - Refraction
24. The centripetal force of a body in a circle is increased by——?
- Decrease in centripetal
 - Increase in its length
 - ✓ **Increase in its mass**
 - Decrease in speed
25. When a bus suddenly stop due to——man receives an impulse in forward direction?
- Illness
 - Third law of motion
 - ✓ **Law of inertia**
 - Second law of motion

Join PAF Physics Online Test 2

1. Which one of the following is a vector quantity?
 - Mass
 - Density
 - Work
 - ✓ **Weight**
2. In parallel plate capacitor capacity depends upon——?
 - Charge
 - Mass
 - Insulator
 - ✓ **Central distance**
3. Laser is a —— part of physics?
 - ✓ **Atomic**
 - None
 - Chemical
 - Mathematical
4. The work done due to motion of body is called——?
 - Total work
 - Wat
 - Power
 - ✓ **Energy**
5. In magnet opposite poles of a magnet——each other?
 - Conduct
 - Interact
 - ✓ **Attract**
 - Repel
6. Which of the following statement is true?
 - $A_t = V_i - V_f$
 - $T = V_f + V_i/a$
 - ✓ **$A_t = V_f - V_i$**
 - $A_t = -V_i - V_f$
7. The density of a body depends upon——of body?
 - Speed
 - Volume
 - Molecule structure
 - ✓ **Mass**
8. The value of g is———?
 - ✓ **9.8 m/sec²**
 - 9.8/sec
 - 9.8 m²/sec²
 - 9.8 m/sec³
9. The motion which is repeated in periods is called ——?

- Trough
- Crest
- ✓ **Periodic**
- Longitudinal

10. Density of water is max at——?

- 100
- ✓ **4**
- Absolute zero
- 0

11. According to newton's second law——and force is directly proportional?

- Distance
- ✓ **Acceleration**
- Velocity
- Speed

12. Turning effect of a body is called——-?

- Speed
- Force
- Velocitya
- ✓ **Torque**

13. Whenever a piece of magnet is cut into pieces its one end becomes north pole other end becomes-----?

- North pole
- ✓ **South pole**
- East pole
- West pole

14. The rate of flow of charge through a conductor is called——?

- Ampere
- Voltage
- ✓ **Current**
- Watt

15. In a reflection ray angle of incidence is——to the angle of reflection..?

- ✓ **Equal**
- Opposite
- Multiple
- Sum

16. If we want to calculate the correct value of length up to 0.0 cm then we will use——?

- None
- ✓ **Vernierkaliper**
- Voltmeter
- Galvanometer

17. If a pencil is dropped in water it bends in — direction?

- None
- Outward
- Outside

✓ **Inside**

18. Longitudinal waves consists on——?

• Crest and trough

✓ **None**

• Crest

• Trough

19. The relationship between stress and strain is called—law?

• Coulomb's

• Hook's

• Ampere's

✓ **Young modulus**

20. Density of water is min at——-?

✓ **100**

• 4

• 0

• Absolute zero

21. Mechanical advantage of machine is called———?

• Output

✓ **Output/input**

• Input/output

• Input

22. Seesaw is — kind of liver?

• None

• Second

✓ **First**

• Third

23. Time period of simple pendulum increases by increasing——?

• Mass

✓ **Length**

• Mass/length

• Frequency

24. ——-is one of importance example of resonance?

✓ **Swing**

• Ammeter

• Voltmeter

• Ampere

25. SI system unit of power is———-?

• Joule

✓ **Watt**

• Volt

• Ampere

Join PAF Physics Online Test 3

1. The rate of change of velocity is called——?
 - ✓ **Acceleration**
 - Displacement
 - Speed
 - Average velocity
2. Velocity is —— quantity?
 - ✓ **Derived**
 - None
 - Basic
 - Fundamental
3. Every action have reaction it is —— law?
 - ✓ **Third**
 - 1st
 - None
 - Second
4. The unit of work is same as the unit of——is?
 - ✓ **Energy**
 - Joule
 - Pressure
 - Velocity
5. The attraction of moon is——than the earth?
 - 9×10
 - ✓ **None**
 - 3×10
 - 3×10.2
6. The force acting on a unit——is called pressure?
 - ✓ **Area**
 - Length
 - Mass
 - Volume
7. ——is sensitive instrument which represents the presence of current?
 - Kilorimeter
 - Ammeter
 - Potentiometer
 - ✓ **Galvanometer**
8. In prism one angle is 90 degree and other are——?
 - ✓ **45 Degree**
 - 30 Degree
 - 120 Degree
 - 60 Degree
9. Which colour is not in rainbow?

- Orange
- ✓ **Brown**
- Red
- Yellow

10. N type materials consists of——?

- Neutrons
- ✓ **Electrons**
- Holes
- Positrons

11. Kinetic energy depends upon——?

- Mass and Speed
- Speed and Density
- ✓ **Mass and Velocity**
- Velocity and Density

12. Volume is a — quantity?

- ✓ **Scalar**
- Vectors
- Both a&b
- None

13. Displacement is——quantity?

- Physical
- Chemical
- Scalar
- ✓ **Vector**

14. The density of a body depends upon——?

- Volume
- Force
- Radius
- ✓ **Mass**

15. The quantities for which to determine their value we have to know their magnitude and direction are called——quantities?

- Scalar
- Force
- Watt
- ✓ **Vectors**

16. Derived units have——kinds?

- 5
- ✓ **7**
- 8
- 4

17. Matter is made up of tiny particles and it is called——?

- ✓ **Atoms**
- Molecules
- Protons

- Electrons
18. The freezing point of water at kelvin degree centrigate is——?
- 212
 - ✓ **273**
 - 746
 - 743
19. The same poles of a magnet——each other?
- ✓ **Repel**
 - Attract
 - Pull
 - Push
20. The bodies floating over water are due to ——law?
- Mosel's
 - Pascal's
 - Newton's
 - ✓ **Archimedes**
21. Refractive telescope consists of——lenses?
- Concave lense
 - Convex lense
 - Double concave lense
 - ✓ **Double convex lense**
22. One horse power=-----?
- ✓ **746**
 - 212
 - 273
 - 743
23. Force is directly proportional to ——?
- Mass
 - ✓ **Acceleration**
 - Speed
 - Velocity
24. Frequency is reciprocal to -----?
- Temperature
 - Amplitude
 - Heat
 - ✓ **Time period**
25. The distance between two bodies is called——?
- Dispersion
 - Speed
 - ✓ **Displacement**
 - Velocity

Join PAF Physics Online Test 4

1. The waves in which the particle vibrates as waves are called—?
 - Crest
 - Longitudinal
 - ✓ **Transverse waves**
 - Through
2. Rubber glass plastic are good—?
 - Extrinsic semiconductors
 - Conductors
 - ✓ **Insulators**
 - Semiconductors
3. The number of vibrations in unit time is called—?
 - None
 - Wave length
 - ✓ **Frequency**
 - Time period
4. The floating of a ship on the surface of sea is due to —law?
 - ✓ **Archimedes**
 - Newton's
 - Pascal's
 - Hook's
5. The rate of change of displacement is called—?
 - Uniform velocity
 - Speed
 - Acceleration
 - ✓ **Velocity**
6. A astronomical telescope consists of — points?
 - One
 - Infinite
 - Three
 - ✓ **Two**
7. Vector have — components?
 - Horizontal
 - Vertical
 - ✓ **Both a&b**
 - Rectangular
8. The sum of neutrons and protons in a nucleus are called—?
 - ✓ **Mass no**
 - Avogadro no
 - Whole no
 - Atomic no
9. One of the example of sound waves is—?
 - ✓ **Radio waves**

- Keyboard
 - Television
 - None
10. The sum of all applied torques is zero it is-----law of equilibrium?
- 1st
 - 3rd
 - None
 - ✓ **2nd**
11. Time period is reciprocal of—?
- Volume
 - Velocity
 - ✓ **Frequency**
 - Density
12. The unit of inertia depends upon—?
- Force
 - Stress
 - Displacement
 - ✓ **Mass**
13. The product of velocity and mass is called—?
- ✓ **Momentum**
 - Displacement
 - Force
 - Torque
14. Which instrument is used to measure current?
- Galvanometer
 - Voltmeter
 - ✓ **Ammeter**
 - Potentiometer
15. The effect of magnet can be destroyed through—?
- Hammering
 - Heating
 - ✓ **Both a & b**
 - Touching
16. The force exerted on machine is called—?
- Input/output
 - Output/input
 - ✓ **Input**
 - Output
17. When a wire carrying current is placed in magnetic field then it moves in-----direction?
- Newton's force
 - Electrostatic force
 - ✓ **Gravitational force**
 - Magnetic force
18. In equation $E = Mc^2$, c represents—?

✓ **Velocity of light**

- Velocity of air
- None
- Velocity of sound

19. Velocity is—unit?

- Fundamental
- Vector
- ✓ **Derived**
- Basic

20. P type materials consists of—-?

- Protons
- Electrons
- Positrons
- ✓ **Holes**

21. The magnetic lines are greater on —side?

- None
- ✓ **Outer**
- Inward
- Surface

22. The force exerted on a unit area is called—?

- Mass
- Pressure
- Strain
- ✓ **Stress**

23. According to which law liquid exerts equal in all sides?

- Newton's law
- Jeans law
- Oersted law
- ✓ **Pascal's law**

24. The force of friction is directly proportional to —?

- ✓ **Mass**
- Strain
- Its coefficient
- Velocity

25. In forward circuit, the PN is connected—terminal?

- Series
- Positive
- ✓ **Negative**
- Parallel

Join PAF Physics Online Test 5

1. One newton=—Dynes?
 - 10^{-4}
 - 10^{+8}
 - ✓ **10**
 - 10^{-9}
2. Momentum depends upon—?
 - Force
 - Acceleration
 - Velocity
 - ✓ **Mass**
3. In SI system the unit of power is —?
 - Newton's
 - ✓ **Watt**
 - Farad
 - Dynes
4. Which scientist introduced the relationship between current voltage and resistance?
 - ✓ **Ohm's**
 - Hook 's
 - Newton's
 - Pascal's
5. The unit of density in MKS system is——?
 - meter/cm
 - Cubic cm
 - Meter
 - ✓ **Cubic meter**
6. The unit of work is ——?
 - Pascal's
 - Farad
 - ✓ **Joule**
 - Watt
7. Force of attraction or repulsion between the charged bodies is directly proportional to their—of the charges?
 - Sum
 - Square
 - ✓ **Product**
 - Multiple
8. Torque =—————?
 - Fa
 - Ma
 - Fm
 - ✓ **Fd**

9. The unit of pressure is called———?
- ✓ **NM³**
 - A
 - FD
 - NM
10. Electrons have negative charge and its mass is ——?
- 6.67×10^{-27}
 - ✓ **9.1×10^{-31}**
 - 9×10^9
 - 3×10^8
11. The unit of torque is ——-?
- FD
 - NM²
 - ✓ **NM**
 - MA
12. Stress = ———?
- Original length/increase in length
 - ✓ **increase in length/original length**
 - None
 - Strain
13. Voltmeter is used for——?
- Resistance
 - Ohm
 - ✓ **Voltage**
 - Current
14. The unit of charge is ——?
- Capacitance
 - Joule
 - ✓ **Coulombs**
 - Farad
15. In law of gravitation $F =$ ———?
- ✓ **$G M m / r^2$**
 - $G M m / r^2$
 - $G M m / r$
 - $g M m / r^2$
16. The instrument used to measure pressure is called——?
- Ammeter
 - ✓ **Barometer**
 - Voltmeter
 - Manometer
17. The unit of charge is equal to —— coulombs?
- $6.25 \times 10^{+19}$
 - 7.25×10^{16}
 - 6.25×10^{-18}

✓ $6.25 \times 10^{+18}$

18. In friction $F_2 = \text{-----}$?

- Voltage
- Ohm
- Current
- ✓ **UR**

19. Young modulus $Y = \text{-----}$?

- Stress
- strain/stress
- Strain
- ✓ **stress/strain**

20. Snow floats over water its reason is-----?

- Equal weight
- Equal volume
- ✓ **Less density**
- Equal density

21. The relationship between stress and strain was introduced by-----?

- Newton's
- Hook's
- None
- ✓ **Young modulus**

22. In mass of earth $M_e = \text{-----}$?

- $G^2 r/G$
- Gr^2/g
- ✓ **Gr^2/g**
- Gr/G^2

23. The process of distribution of light into seven colors is called—of light?

- Refraction
- Respiration
- ✓ **Dispersion**
- Reflection

24. Bloons flies in air its reason is-----?

- Equal weight
- Lightness
- ✓ **Less density**
- Heavy

25. The original length and increase in length is called —law?

- Newton's
- Young modulus
- ✓ **Hook's**
- Ampere's

PAF Physics Online Test 6

1. A pencil is an example of——equilibrium?
 - Neutral
 - None
 - ✓ **Unstable**
 - Stable
2. In air velocity of sound is——?
 - 4500
 - ✓ **None**
 - 3400
 - 36952
3. The speed of light is ——?
 - 4×10^5
 - ✓ **3×10^8**
 - 3×10^8
 - 2×10^8
4. If a body of mass “m” is attached with a rope then this is——law?
 - Pascal’s
 - Ohm
 - ✓ **Newton’s**
 - Momentum
5. Hydrogen has ——isotopes?
 - Four
 - One
 - ✓ **Three**
 - Two
6. The unit of stress is ——?
 - Nm
 - ✓ **Nm^{-2}**
 - Nm 1
 - Nm 2
7. The centrifugal force is inversely proportional to——?
 - Mass
 - Velocity
 - Centripetal
 - ✓ **Radius**
8. To move entire earth said by ——?
 - Ohm’s
 - ✓ **Archimedes**
 - Newton’s
 - Oersted
9. Boyles law=——?

- PVT
- NRT
- $P \propto V \propto T$
- ✓ **PV**

10. The magnetic lines are greater on—side?

- ✓ **Outer**
- Surface
- None
- Inner

11. Doctor Abdul Islam got noble prize in—?

- 1980
- 1992
- ✓ **1979**
- 1962

12. If a 100 kg weight is thrown in upward direction then on coming down side its weight side its weight will be—?

- Increase
- 4 kg
- 100 kg
- ✓ **Same**

13. To lift the heavy cars—is used?

- Inclined plane
- Lever
- ✓ **Screw jack**
- None

14. If 1000 joule of a body is dropped from height then what will be its velocity on coming down?

- 100
- None
- ✓ **0**
- 1000

15. If the distance of one body from another body will be twice the force of gravitation will be—?

- ✓ **1/4**
- 1/2
- Fourth
- Double

16. In dry cell the charging of emf is—?

- 1V
- 2V
- ✓ **1.5V**
- 2.5V

17. The strong magnet less attracts—?

- Paramagnetic
- ✓ **Ferromagnetic**
- Electromagnetic

- Diamagnetic

18. In three states of matter in which the attraction of molecules is lesser?

✓ **Gas**

- Liquid
- Solid
- None

19. The moving wheel of a car is an example of —motion?

✓ **None**

- Vibrational
- Transnational
- Wave

20. —molecules have greater distance?

- Solid
- None
- Liquid

✓ **Gas**

21. The ratio of force and weight is called —?

- Inclined plane
- Momentum
- ✓ **Mechanical advantage**
- Efficiency

22. If we add all the 7 colors of rainbow (red, yellow, blue, green, orange, violet and indigo), the resultant color would be?

✓ **White**

- Black
- Maroon
- Dark Blue

23. When white light passes through a prism, it splits into _____ colors.

- 5
- ✓ **6**
- 7
- 8

24. A camera uses a _____ to form an image on a piece of film at the back.

✓ **convex lens**

- B. concave lens
- C. diverging lens
- D. none of these

25. Short-sight defect could be corrected by a _____.

- convex lens
- ✓ **concave lens**
- converging lens
- none of these

26. Red + Green + Blue = ?

✓ **White**

- Black
- Maroon
- Dark Blue

27. Ozone layer protects the Earth from _____ radiations from the Sun.

- microwaves
- infrared
- X-rays
- ✓ **ultraviolet**

28. The distance of Moon from the Earth is _____ km.

- 364,000
- ✓ **384,000**
- 464,000
- 484,000

29. There are _____ planets in orbit around the Sun.

- 6
- 7
- ✓ **8**
- 9

30. Planets are kept in orbit by the?

- Attraction among the Planets
- Attraction among the Planets and the Sun
- Radiations from the Sun
- ✓ **Gravitational pull of the Sun**

31. Which from the following is NOT a Renewable Energy?

- Geothermal
- Solar
- ✓ **Nuclear**
- Biofuels

PMA ISSB Physics Initial Test Online Preparation

1. Electron volt is a unit of?
 - Power
 - Momentum
 - ✓ **Energy**
 - Work
2. Two different gases having equal volumes at the same temperature and pressure will contain?
 - Different number of molecules
 - Atoms but not molecules
 - ✓ **Same number of molecules**
 - Number of molecules according to their densities
3. The instantaneous and average velocities of a body are equal, the body is?
 - Not moving at all
 - None of above
 - ✓ **Moving with a constant velocity**
 - Placed in a moving bus
4. Maxwell's hypothesis suggests that a changing electric field gives rise to?
 - ✓ **A magnetic field**
 - another electric field
 - An e.m.f
 - A changing resistance
5. A shunt resistance parallel to the galvanometer is used to convert it into a? Quiz
 - A vometer
 - Voltmeter
 - ✓ **Mille-ammeter**
 - Multimeter
6. An atom emits a beta-particle from its?
 - Inner shells
 - Any of the shells depending upon its energy
 - ✓ **Nucleus**
 - Outer shells
7. The magnitude of the resultant of two forces may be increased by ?
 - Drawing a parallelogram to represent them
 - None of the above
 - ✓ **Decreasing the angle between them**
 - Increasing the angle between them
8. When two tuning forks of nearly the same frequencies are sounded, the beats produced?
 - Travel with a velocity less than that of sound
 - ✓ **Travel with the velocity of sound**
 - Travel with a velocity greater than that of sound
 - Do not travel at all as they are stationary

9. A stone is being whirled at the end of a string in form of a vertical circle. The string of breaks is likely to carry the stone?

- At any point
- At a fixed point
- At the highest point
- ✓ **At the lowest point**

10. The variation in focal length of a lens at its edges is called?

- Coma
- Chromatic aberration
- ✓ **Spherical aberration**
- Astigmatism

11. If X – Rays are passed through successive aluminum sheets, their hardness?

- Increase
- ✓ **Remains unaffected**
- Varies
- Decreases

12. When the mass and speed of a body are doubled the KE becomes?

- 16 Times
- 3 Times
- 4 Times
- ✓ **8 Times**

13. An astronaut in space working outside his spaceship is attached to the ship with a belt. If the belt is cut?

- He will go to the outer space
- None of the above
- ✓ **He will continue moving in the orbit**
- He will fall towards earth

14. An electron of Hydrogen atom jumps from higher orbit into fifth orbit, the line spectrum emitted will be in?

- Pfund series
- ✓ **Lyman series**
- Bracket series
- Paschen series

15. The mean color of the spectrum is?

- Blue
- ✓ **Green**
- Violet
- Yellow

16. Which of the following quantities is a vector quantity?

- Mass
- ✓ **None of these**
- Time
- Length

17. According to special theory of relativity, space and time have?

- Absolute meaning
- Conceptual meaning
- ✓ **Relative meaning**
- Selective meaning

18. A convex lens of focal length ' f ' is immersed in a liquid of refractive index less than that of lens material, its focal length?

- None of these
- Remains unchanged
- Decreases
- ✓ **Increase**

19. When a gas is compressed?

- Its temperature decreases
- Its temperature remains unchanged
- None of these
- ✓ **Its temperature increases**

20. The resistance of a potentiometer must be kept high?

- To compare e.m.f
- ✓ **To compare the potential difference**
- To compare current
- To compare charges

21. When a torque acting on a system is zero, which of the following will be constant?

- Linear impulse
- Linear momentum
- ✓ **Angular momentum**
- Forces

22. A junction diode when forward biased behaves as a device of?

- Infinite resistance
- High resistance
- Zero resistance
- ✓ **Low resistance**

23. Due to the sudden burst of an inflated Tyre, the temperature of air inside the Tyre?

- Increase
- Remains constant
- ✓ **Decreases**

24. Which of the following suggests that light waves are transverse in nature?

- Interference
- All of above
- Diffraction
- ✓ **Polarization**

25. Inertia of a body is measured in terms of its?

- ✓ **Mass**
- Weight
- Velocity