Physics – LPUNEST Sample Questions

1. What is the unit of force?

   - A) Newton

   - B) Joule

   - C) Watt

   - D) Pascal
     Ans: A

2. Acceleration is the rate of change of:

   - A) Velocity

   - B) Speed

   - C) Displacement

   - D) Time
     Ans: A

3. Which law states that "Every action has an equal and opposite reaction"?

   - A) Newton's First Law

   - B) Newton's Second Law

   - C) Newton's Third Law

   - D) Law of Gravitation
     Ans: C

4. What is the SI unit of electric current?

   - A) Ampere

   - B) Volt

   - C) Ohm

- ○ D) Coulomb
  Ans: A

5. Energy stored in a stretched spring is:

   - ○ A) Kinetic

   - ○ B) Potential

   - ○ C) Thermal

   - ○ D) Electric
     Ans: B

6. The escape velocity on Earth is approximately:

   - ○ A) 7.9 km/s

   - ○ B) 11.2 km/s

   - ○ C) 9.8 m/s²

   - ○ D) 5.5 km/s
     Ans: B

7. In an elastic collision:

   - ○ A) Momentum is not conserved

   - ○ B) Only kinetic energy is conserved

   - ○ C) Both momentum and kinetic energy are conserved

   - ○ D) None of these
     Ans: C

8. The dimensional formula of power is:

   - ○ A) $[ML^2T^{-3}]$

   - ○ B) $[MLT^{-2}]$

   - ○ C) $[ML^{-1}T^{-3}]$

- D) $[M^2L^2T^{-2}]$
   Ans: A

9. Which of the following has the highest refractive index?

- A) Air

- B) Water

- C) Diamond

- D) Glass
   Ans: C

10. One kilowatt-hour is equal to:

- A) 1000 joules

- B) 3600 joules

- C) 3.6×10^6 joules

- D) 3.6×10^3 joules
   Ans: C

11. The image formed by a concave mirror can be:

- A) Virtual

- B) Real

- C) Inverted

- D) All of these
   Ans: D

12. Which phenomenon shows the wave nature of light?

- A) Reflection

- B) Refraction

- C) Interference

- D) Dispersion
  Ans: C

13. The unit of magnetic field (B) is:

- A) Tesla

- B) Ampere
- C) Volt

- D) Coulomb
  Ans: A

14. SI unit of capacitance:

- A) Farad

- B) Henry

- C) Volt

- D) Ohm
  Ans: A

15. Frequency is the reciprocal of:

- A) Time

- B) Wavelength

- C) Amplitude

- D) Velocity
  Ans: A

16. Heat transfer in solids takes place mainly by:

- A) Conduction

- B) Convection

- C) Radiation

- D) None
  Ans: A

17. The principle of conservation of linear momentum is based on:

- A) Newton's First Law

- B) Newton's Second Law

- C) Newton's Third Law

- D) Kepler's Law
  Ans: C

18. Angular momentum is conserved when:

- A) External torque is zero

- B) Internal forces act

- C) No force acts

- D) Only potential energy is involved
  Ans: A

19. The speed of light in a vacuum is:

- A) 3×10^6 m/s

- B) 3×10^8 m/s

- C) 3×10^5 km/s

- D) Both B and C
  Ans: D

20. The unit of work done is:

- A) Watt

- B) Newton

- C) Joule

- D) Ampere
  Ans: C

21. The value of the gravitational constant (G) is:

   - A) $9.8 \ m/s^2$

   - B) $6.67 \times 10^{-11} \ Nm^2/kg^2$

   - C) $3 \times 10^8 \ m/s$

   - D) $1.6 \times 10^{-19} \ C$
     Ans: B

22. A transformer works on:

   - A) Direct current

   - B) Static electricity

   - C) Electromagnetic induction

   - D) Chemical reaction
     Ans: C

23. Sound travels fastest in:

   - A) Air

   - B) Water

   - C) Vacuum

   - D) Steel
     Ans: D

24. Which of the following is a scalar quantity?

   - A) Force

   - B) Displacement

   - C) Velocity

○ D) Work
Ans: D

25. The law of conservation of energy states that:

○ A) Energy can be created

○ B) Energy can be destroyed

○ C) Energy can be transformed

○ D) Both A and B
Ans: C

26. The unit of pressure is:

○ A) Newton

○ B) Pascal

○ C) Joule

○ D) Watt
Ans: B

27. Which of these is a vector quantity?

○ A) Mass

○ B) Speed

○ C) Acceleration

○ D) Distance
Ans: C

28. What is the angle between velocity and acceleration in uniform circular motion?

○ A) 0°

○ B) 45°

○ C) 90°

- D) 180°
  Ans: C

29. The resistance of a conductor depends on:

- A) Length

- B) Area

- C) Material

- D) All of these
  Ans: D

30. Ohm's Law is represented as:

- A) V = IR

- B) P = IV

- C) I = VR

- D) V = I/R
  Ans: A

Chemistry – LPUNEST Sample Questions

1. The atomic number is defined as the number of:

- A) Electrons

- B) Protons

- C) Neutrons

- D) Nucleons
  Ans: B

2. The molecular formula of glucose is:

- A) C_6H_6

- ○ B) $C_6H_{12}O_6$

- ○ C) C_2H_6O

- ○ D) CH_4
  Ans: B

3. Which of the following is a noble gas?

   - ○ A) Oxygen

   - ○ B) Chlorine

   - ○ C) Helium

   - ○ D) Hydrogen
     Ans: C

4. pH of a neutral solution at 25°C is:

   - ○ A) 5

   - ○ B) 7

   - ○ C) 9

   - ○ D) 14
     Ans: B

5. Avogadro's number is:

   - ○ A) 6.02×10^{22}

   - ○ B) 6.02×10^{23}

   - ○ C) 3.02×10^{23}

   - ○ D) 1.02×10^{24}
     Ans: B

6. Which bond is present in NaCl?

   - ○ A) Covalent

○ B) Coordinate

○ C) Ionic

○ D) Hydrogen
Ans: C

7. Which is the strongest acid?

○ A) HCl

○ B) H_2SO_4

○ C) HNO_3

○ D) HF
Ans: B

8. The formula for washing soda is:

○ A) $NaHCO_3$

○ B) $Na_2CO_3.10H_2O$

○ C) Na_2SO_4

○ D) $CaCO_3$
Ans: B

9. Which metal is liquid at room temperature?

○ A) Iron

○ B) Mercury

○ C) Zinc

○ D) Lead
Ans: B

10. The number of neutrons in carbon-14 is:

○ A) 6

- ○ B) 8

- ○ C) 14

- ○ D) 12
Ans: B

11. Which gas is evolved during photosynthesis?

- ○ A) CO_2

- ○ B) H_2

- ○ C) O_2

- ○ D) N_2
Ans: C

12. Rusting of iron is:

- ○ A) Reduction

- ○ B) Sublimation

- ○ C) Oxidation

- ○ D) Neutralization
Ans: C

13. The basic unit of polymer is:

- ○ A) Ion

- ○ B) Monomer

- ○ C) Compound

- ○ D) Solute
Ans: B

14. Ethanol reacts with sodium to liberate:

- ○ A) Oxygen

○ B) Hydrogen

○ C) Carbon dioxide

○ D) Water
   Ans: B

15. Which element forms the backbone of organic compounds?

○ A) Oxygen

○ B) Carbon

○ C) Hydrogen

○ D) Nitrogen
   Ans: B

16. Electrolysis of water produces:

○ A) H_2 and O_2

○ B) H_2O_2

○ C) Na and Cl_2

○ D) None
   Ans: A

17. Which of the following is a saturated hydrocarbon?

○ A) Ethene

○ B) Ethyne

○ C) Ethane

○ D) Benzene
   Ans: C

18. Which compound is used as an antiseptic?

○ A) Phenol

- ○ B) Methanol

- ○ C) Acetone

- ○ D) Formaldehyde
  Ans: A

19. Water is a:

- ○ A) Element

- ○ B) Compound

- ○ C) Mixture

- ○ D) Isotope
  Ans: B

20. Which among the following is an alloy?

- ○ A) Brass

- ○ B) Iron

- ○ C) Lead

- ○ D) Zinc
  Ans: A

21. The gas used in fire extinguishers is:

- ○ A) Oxygen

- ○ B) Nitrogen

- ○ C) Carbon dioxide

- ○ D) Hydrogen
  Ans: C

22. Acids react with bases to form:

- ○ A) Salt and water

- ○ B) Hydrogen

- ○ C) Oxygen

- ○ D) Ammonia
  Ans: A

23. Which of these is a greenhouse gas?

- ○ A) O_2

- ○ B) CO_2

- ○ C) N_2

- ○ D) H_2
  Ans: B

24. The atomic mass of calcium is:

- ○ A) 20

- ○ B) 40

- ○ C) 12

- ○ D) 24
  Ans: B

25. The periodic table was first developed by:

- ○ A) Mendeleev

- ○ B) Newton

- ○ C) Dalton

- ○ D) Rutherford
  Ans: A

26. The process of removing impurities from ore is called:

- ○ A) Refining

- ○ B) Roasting

- ○ C) Smelting

- ○ D) Concentration
  Ans: D

27. Which acid is found in vinegar?

- ○ A) Hydrochloric acid

- ○ B) Sulphuric acid

- ○ C) Acetic acid

- ○ D) Nitric acid
  Ans: C

28. Litmus turns red in:

- ○ A) Base

- ○ B) Acid

- ○ C) Salt

- ○ D) Neutral
  Ans: B

29. Which is a chemical change?

- ○ A) Melting of ice

- ○ B) Boiling of water

- ○ C) Rusting of iron

- ○ D) Breaking of glass
  Ans: C

30. The bleaching agent in bleaching powder is:

- ○ A) NaCl

- ○ B) CaO

- ○ C) Cl_2

- ○ D) $Ca(ClO)_2$
  Ans: D

Mathematics – LPUNEST Sample Questions

1. The value of sin90∘\sin 90^\circsin90∘ is:

   - ○ A) 0

   - ○ B) 1

   - ○ C) √3/2

   - ○ D) 1/2
     Ans: B

2. (a+b)2=(a + b)^2 =(a+b)2= ?

   - ○ A) a2+b2a^2 + b^2a2+b2

   - ○ B) a2+2ab+b2a^2 + 2ab + b^2a2+2ab+b2

   - ○ C) 2ab2ab2ab

   - ○ D) a2−2ab+b2a^2 - 2ab + b^2a2−2ab+b2
     Ans: B

3. The solution of the equation 2x+3=72x + 3 = 72x+3=7 is:

   - ○ A) x = 2

   - ○ B) x = 1

   - ○ C) x = 5

   - ○ D) x = -2
     Ans: A

4. The value of log10(100)\log_{10}(100)log10(100) is:

- ○ A) 1
- ○ B) 2
- ○ C) 10
- ○ D) 0
  Ans: B

5. The derivative of x2x^2x2 is:

- ○ A) 2x
- ○ B) x
- ○ C) x2x^2x2
- ○ D) 1
  Ans: A

6. The integral of 1/x is:

- ○ A) ln|x| + C
- ○ B) x
- ○ C) 1/x²
- ○ D) e^x
  Ans: A

7. The sum of the interior angles of a triangle is:

- ○ A) 90°
- ○ B) 180°
- ○ C) 360°
- ○ D) 270°
  Ans: B

8. If A = {1, 2}, B = {2, 3}, then A ∩ B =

- ○ A) {1}

- ○ B) {2}

- ○ C) {1,2,3}

- ○ D) {}
  Ans: B

9. The distance between (0, 0) and (3, 4) is:

- ○ A) 5

- ○ B) 7

- ○ C) 6

- ○ D) 1
  Ans: A

10. If $a3-b3=(a-b)(a2+ab+b2)$ $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$ $a3-b3=(a-b)(a2+ab+b2)$, then it is a:

- ○ A) Trigonometric identity

- ○ B) Logarithmic identity

- ○ C) Algebraic identity

- ○ D) Calculus identity
  Ans: C

11. The slope of the line $y=3x+2$ $y = 3x + 2$ $y=3x+2$ is:

- ○ A) 3

- ○ B) 2

- ○ C) -3

- ○ D) 1
  Ans: A

12. What is the value of $\cos 0^\circ$?

- ○ A) 1

- ○ B) 0

- ○ C) -1

- ○ D) 2
  Ans: A

13. Which of the following is not a prime number?

- ○ A) 2

- ○ B) 3

- ○ C) 9

- ○ D) 7
  Ans: C

14. $\sqrt{144}$ equals:

- ○ A) 11

- ○ B) 12

- ○ C) 13

- ○ D) 14
  Ans: B

15. The area of a circle is:

- ○ A) $2\pi r$

- ○ B) πr^2

- ○ C) πr

- ○ D) πd
  Ans: B

16. Factor of x2−4x^2 - 4x2−4 is:

- A) x+2x + 2x+2

- B) x−2x - 2x−2

- C) (x+2)(x−2)(x + 2)(x - 2)(x+2)(x−2)

- D) x2+2x^2 + 2x2+2
  Ans: C

17. The quadratic formula is:

- A) x=−b±b2−4ac2ax = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}x=2a−b±b2−4ac

- B) x=b±b2−4ac2ax = \frac{b \pm \sqrt{b^2 - 4ac}}{2a}x=2ab±b2−4ac

- C) x=−b±4ac−b22ax = \frac{-b \pm \sqrt{4ac - b^2}}{2a}x=2a−b±4ac−b2

- D) None
  Ans: A

18. (x−3)2=(x - 3)^2 =(x−3)2= ?

- A) x2−9x^2 - 9x2−9

- B) x2−6x+9x^2 - 6x + 9x2−6x+9

- C) x2+6x+9x^2 + 6x + 9x2+6x+9

- D) x2+9x^2 + 9x2+9
  Ans: B

19. What is the median of {3, 5, 7}?

- A) 3

- B) 5

- C) 7

- D) 4
  Ans: B

20. What is the sum of the first 5 natural numbers?

- ○ A) 10
- ○ B) 12
- ○ C) 15
- ○ D) 20
  Ans: C

21. If 2x = 10, then x = ?

- ○ A) 2
- ○ B) 5
- ○ C) 10
- ○ D) 4
  Ans: B

22. $\tan 45^\circ = $?

- ○ A) 0
- ○ B) 1
- ○ C) √3
- ○ D) 1/√3
  Ans: B

23. Which number is divisible by 11?

- ○ A) 121
- ○ B) 111
- ○ C) 123
- ○ D) 131
  Ans: A

24. The graph of a constant function is:

- ○ A) Straight line parallel to the x-axis

- ○ B) Parabola

- ○ C) Circle

- ○ D) Straight line parallel to the y-axis
  Ans: A

25. $(x2)3 = (x^2)^3 = (x2)3 = ?$

- ○ A) x6x^6x6

- ○ B) x5x^5x5

- ○ C) x9x^9x9

- ○ D) x3x^3x3
  Ans: A

26. What is the mode of {2, 4, 4, 4, 5, 6}?

- ○ A) 2

- ○ B) 4

- ○ C) 5

- ○ D) 6
  Ans: B

27. A triangle with all angles less than 90° is:

- ○ A) Right-angled

- ○ B) Obtuse

- ○ C) Acute

- ○ D) Equilateral
  Ans: C

28. Which of the following is irrational?

- ○ A) $\sqrt{2}$

- ○ B) 4

- ○ C) 7/3

- ○ D) 0.5
  Ans: A

29. The value of 23+322^3 + 3^223+32 is:

- ○ A) 17

- ○ B) 16

- ○ C) 19

- ○ D) 18
  Ans: C

30. a0=a^0 =a0= ?

- ○ A) 0

- ○ B) 1

- ○ C) a

- ○ D) Undefined
  Ans: B

Biology – LPUNEST Sample Questions

1. The basic unit of life is:

   - ○ A) Organ

   - ○ B) Cell

   - ○ C) Tissue

- ○ D) DNA
  Ans: B

2. The process of conversion of light energy into chemical energy is:

   - ○ A) Respiration

   - ○ B) Photosynthesis

   - ○ C) Fermentation

   - ○ D) Transpiration
     Ans: B

3. Which part of the plant conducts photosynthesis?

   - ○ A) Roots

   - ○ B) Stem

   - ○ C) Flowers

   - ○ D) Leaves
     Ans: D

4. DNA stands for:

   - ○ A) Deoxyribonucleic acid

   - ○ B) Dioxyribose nitrogenous acid

   - ○ C) Deoxynucleic acid

   - ○ D) Dioxyribonitric acid
     Ans: A

5. Which organelle is called the powerhouse of the cell?

   - ○ A) Nucleus

   - ○ B) Ribosome

   - ○ C) Mitochondria

- ○ D) Golgi body
  Ans: C

6. The functional unit of the kidney is:

   - ○ A) Nephron

   - ○ B) Neuron

   - ○ C) Alveolus

   - ○ D) Ureter
     Ans: A

7. Which blood cells fight infection?

   - ○ A) RBC

   - ○ B) WBC

   - ○ C) Platelets

   - ○ D) Plasma
     Ans: B

8. Which disease is caused by the deficiency of insulin?

   - ○ A) Cancer

   - ○ B) Diabetes

   - ○ C) Tuberculosis

   - ○ D) AIDS
     Ans: B

9. Which vitamin is essential for blood clotting?

   - ○ A) A

   - ○ B) B

   - ○ C) K

- ○ D) D
  Ans: C

10. What is the main function of the large intestine?

- ○ A) Absorption of nutrients

- ○ B) Digestion of food

- ○ C) Absorption of water

- ○ D) Secretion of enzymes
  Ans: C

11. Which organ is responsible for detoxification in the body?

- ○ A) Heart

- ○ B) Liver

- ○ C) Kidney

- ○ D) Lungs
  Ans: B

12. The longest bone in the human body is:

- ○ A) Humerus

- ○ B) Tibia

- ○ C) Femur

- ○ D) Radius
  Ans: C

13. Which of the following is a unicellular organism?

- ○ A) Hydra

- ○ B) Amoeba

- ○ C) Earthworm

○ D) Frog
  Ans: B

14. Which part of the brain controls balance?

  ○ A) Cerebrum

  ○ B) Medulla

  ○ C) Cerebellum

  ○ D) Thalamus
    Ans: C

15. Blood is a type of:

  ○ A) Connective tissue

  ○ B) Muscular tissue

  ○ C) Epithelial tissue

  ○ D) Nervous tissue
    Ans: A

16. The smallest blood vessels are:

  ○ A) Arteries

  ○ B) Veins

  ○ C) Capillaries

  ○ D) Venules
    Ans: C

17. The structural and functional unit of the nervous system is:

  ○ A) Nephron

  ○ B) Neuron

  ○ C) Axon

- ○ D) Spinal cord
  Ans: B

18. The green pigment in plants is called:

- ○ A) Carotene

- ○ B) Xanthophyll

- ○ C) Chlorophyll

- ○ D) Haemoglobin
  Ans: C

19. The exchange of gases takes place in:

- ○ A) Trachea

- ○ B) Bronchi

- ○ C) Alveoli

- ○ D) Bronchioles
  Ans: C

20. What is the human body's normal temperature?

- ○ A) 98.6°C

- ○ B) 100°F

- ○ C) 37°F

- ○ D) 98.6°F
  Ans: D

21. Which gland is known as the master gland?

- ○ A) Adrenal

- ○ B) Pituitary

- ○ C) Thyroid

○ D) Pancreas
   Ans: B

22. Which of the following carries oxygenated blood?

- ○ A) Pulmonary vein

- ○ B) Pulmonary artery

- ○ C) Vena cava

- ○ D) Hepatic portal vein
   Ans: A

23. The process by which plants lose water is:

- ○ A) Respiration

- ○ B) Transpiration

- ○ C) Photosynthesis

- ○ D) Absorption
   Ans: B

24. Which disease is caused by Plasmodium?

- ○ A) Typhoid

- ○ B) Malaria

- ○ C) Dengue

- ○ D) AIDS
   Ans: B

25. The part of the flower that becomes fruit is:

- ○ A) Sepal

- ○ B) Ovary

- ○ C) Stigma

○ D) Petal
Ans: B

26. Who is the father of genetics?

○ A) Charles Darwin

○ B) Gregor Mendel

○ C) Watson

○ D) Linnaeus
Ans: B

27. What is the term for animals that eat only plants?

○ A) Carnivores

○ B) Omnivores

○ C) Herbivores

○ D) Insectivores
Ans: C

28. Which part of the eye controls the amount of light entering?

○ A) Cornea

○ B) Iris

○ C) Retina

○ D) Lens
Ans: B

29. Which one of the following is not a communicable disease?

○ A) Tuberculosis

○ B) Cancer

○ C) Common cold

- ○ D) Measles
  Ans: B

30. The mosquito responsible for spreading dengue is:

- ○ A) Culex

- ○ B) Anopheles

- ○ C) Aedes

- ○ D) Tsetse
  Ans: C

Physics – LPUNEST Sample Questions

1. The SI unit of force is:

   - ○ A) Joule

   - ○ B) Newton

   - ○ C) Watt

   - ○ D) Pascal
     Ans: B

2. The speed of light in a vacuum is:

   - ○ A) 3×10^8 m/s

   - ○ B) 1.5×10^8 m/s

   - ○ C) 3×10^6 m/s

   - ○ D) 1.5×10^6 m/s
     Ans: A

3. Which physical quantity is a scalar?

   - ○ A) Velocity

- B) Acceleration

- C) Force

- D) Speed
  Ans: D

4. The energy possessed by a body due to its motion is called:

  - A) Potential energy

  - B) Thermal energy

  - C) Kinetic energy

  - D) Electrical energy
    Ans: C

5. Newton's Third Law states:

  - A) Force = mass × acceleration

  - B) Every action has an equal and opposite reaction

  - C) Inertia is the natural tendency of objects

  - D) Energy cannot be created or destroyed
    Ans: B

6. A body is said to be in uniform motion if:

  - A) It moves with constant speed in different directions

  - B) It changes direction

  - C) It covers equal distances in equal intervals of time

  - D) It stays at rest
    Ans: C

7. The SI unit of power is:

  - A) Watt

- ○ B) Joule

- ○ C) Newton

- ○ D) Ampere
  Ans: A

8. Ohm's law is:

   - ○ A) V=IRV = IRV=IR

   - ○ B) V=IR2V = IR^2V=IR2

   - ○ C) V=I/RV = I/RV=I/R

   - ○ D) V=R/IV = R/IV=R/I
     Ans: A

9. One horsepower is equal to:

   - ○ A) 746 watts

   - ○ B) 100 watts

   - ○ C) 500 watts

   - ○ D) 1000 watts
     Ans: A

10. A freely falling object has:

- ● A) Constant velocity

- ● B) Increasing acceleration

- ● C) Constant acceleration

- ● D) Zero acceleration
  Ans: C

11. Which of the following is not a unit of energy?

- ● A) Calorie

- B) Joule

- C) Newton

- D) Kilowatt-hour
  Ans: C

12. The acceleration due to gravity on Earth is:

- A) 10 m/s²

- B) 9.8 m/s²

- C) 9.8 km/s²

- D) 8.9 m/s²
  Ans: B

13. Heat is a form of:

- A) Force

- B) Mass

- C) Energy

- D) Power
  Ans: C

14. The resistance of a conductor depends on:

- A) Length

- B) Area

- C) Material

- D) All of these
  Ans: D

15. Which of the following is a non-contact force?

- A) Friction

- B) Air resistance

- C) Gravitational force

- D) Tension
  Ans: C

16. The work done when the displacement is zero is:

- A) Infinite

- B) Negative

- C) Zero

- D) Positive
  Ans: C

17. Sound cannot travel through:

- A) Solids
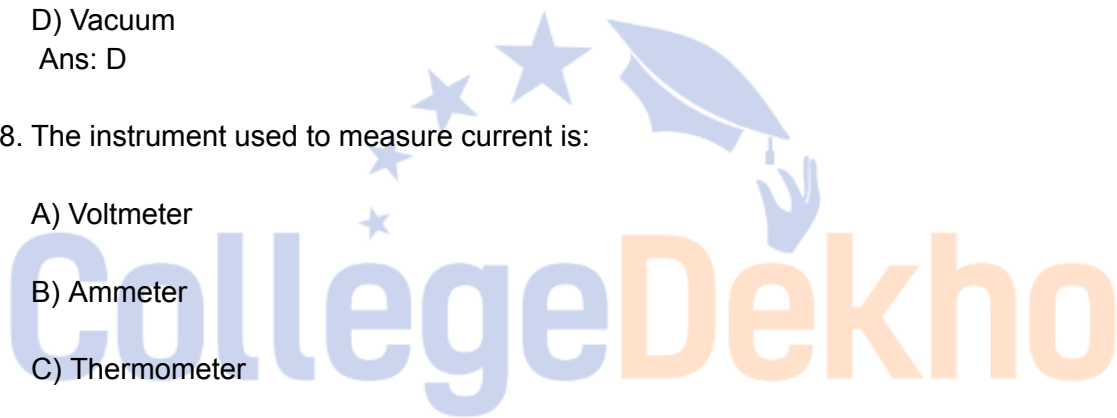
- B) Liquids

- C) Gases

- D) Vacuum
  Ans: D

18. The instrument used to measure current is:

- A) Voltmeter

- B) Ammeter

- C) Thermometer

- D) Barometer
  Ans: B

19. Which colour has the highest frequency?

- A) Red

- B) Blue

- C) Violet

- D) Green
  Ans: C

20. The device used to convert mechanical energy into electrical energy is:

- A) Generator

- B) Motor

- C) Transformer

- D) Inverter
  Ans: A

21. The unit of electric charge is:

- A) Volt

- B) Ohm

- C) Coulomb

- D) Watt
  Ans: C

22. A convex lens is:

- A) Thinner at centre

- B) Thicker at edges

- C) Thicker at centre

- D) Same throughout
  Ans: C

23. Echo is best heard when the distance from the reflecting surface is at least:

- A) 10 m

- B) 17 m

- C) 20 m

- D) 50 m
  Ans: B

24. The unit of frequency is:

- A) Hertz

- B) Decibel

- C) Ampere

- D) Volt
  Ans: A

25. Which law explains the buoyant force?

- A) Newton's Law

- B) Archimedes' Principle

- C) Pascal's Law

- D) Bernoulli's Theorem
  Ans: B

26. Acceleration is defined as:

- A) Rate of change of velocity

- B) Rate of change of speed

- C) Rate of change of mass

- D) Distance covered
  Ans: A

27. Pressure is equal to:

- A) Force × Area

- B) Force / Area

- C) Area / Force

- D) Force² / Area
  Ans: B

28. Which mirror is used in vehicles for the rear-view?

- A) Plane

- B) Convex

- C) Concave

- D) Parabolic
  Ans: B

29. The period of a pendulum depends on:

- A) Amplitude

- B) Mass

- C) Length

- D) Both mass and amplitude
  Ans: C

30. The weight of an object is:

- A) Same everywhere

- B) Equal to its mass

- C) A force

- D) Less than mass
  Ans: C

English – LPUNEST Sample Questions

1. Choose the correct synonym of Abandon:

   - A) Leave

   - B) Accept

   - C) Retain

   - D) Continue
     Ans: A

2. Choose the antonym of Generous:

   - A) Stingy

   - B) Kind

   - C) Polite

   - D) Affectionate
     Ans: A

3. Fill in the blank: I am looking forward ___ the holidays.

   - A) to

   - B) at

   - C) for

   - D) on
     Ans: A

4. Choose the correctly punctuated sentence:

   - A) He said "I will come tomorrow".

   - B) He said, "I will come tomorrow."

   - C) He said "I will come tomorrow."

○ D) He said, I will come tomorrow.
  Ans: B

5. Identify the part of speech: Quickly

  ○ A) Noun

  ○ B) Adjective

  ○ C) Adverb

  ○ D) Verb
    Ans: C

6. The plural form of crisis is:

  ○ A) crisises

  ○ B) crisii

  ○ C) crises

  ○ D) crisis
    Ans: C

7. Identify the correct passive voice:

  ○ She writes a letter.

  ○ A) A letter is written by her.

  ○ B) A letter was written by her.

  ○ C) A letter has written by her.

  ○ D) A letter is writing by her.
    Ans: A

8. Choose the correct spelling:

  ○ A) Accommodate

  ○ B) Acommodate

- ○ C) Accomodate

- ○ D) Acommodait
  Ans: A

9. Choose the correct tense:

   - ○ By next week, she ___ her exams.

   - ○ A) finished

   - ○ B) finishes

   - ○ C) will finish

   - ○ D) will have finished
     Ans: D

10. One word for: A person who talks too much

    - ○ A) Introvert

    - ○ B) Extrovert

    - ○ C) Garrulous

    - ○ D) Taciturn
      Ans: C

11. Choose the correct synonym of Reluctant:

    - ○ A) Eager

    - ○ B) Willing

    - ○ C) Hesitant

    - ○ D) Fast
      Ans: C

12. Change into indirect speech:

    - ○ She said, "I am learning French."

○ A) She said that she is learning French.

○ B) She said that she was learning French.

○ C) She said she has been learning French.

○ D) She said she will be learning French.
Ans: B

13. Spot the error: He don't know the answer.

○ A) He

○ B) don't

○ C) know

○ D) the answer
Ans: B

14. Choose the correct preposition: She is married ___ a doctor.

○ A) to

○ B) with

○ C) by

○ D) at
Ans: A

15. Choose the correct form of the verb:

○ Neither the teacher nor the students ___ present.

○ A) was

○ B) are

○ C) is

○ D) were
Ans: B

General Aptitude – LPUNEST Sample Questions

1. What comes next in the series: 2, 6, 12, 20,?

    ○ A) 30

    ○ B) 28

    ○ C) 24

    ○ D) 22
    Ans: B

2. If 5x = 20, then x = ?

    ○ A) 2

    ○ B) 4

    ○ C) 5

    ○ D) 6
    Ans: B

3. 25% of 160 is:

    ○ A) 30

    ○ B) 40

    ○ C) 60

    ○ D) 50
    Ans: B

4. Find the odd one out: Apple, Orange, Mango, Carrot

    ○ A) Apple

    ○ B) Orange

- ○ C) Carrot

- ○ D) Mango
  Ans: C

5. If a train travels 60 km in 1.5 hours, its speed is:

- ○ A) 90 km/h

- ○ B) 40 km/h

- ○ C) 30 km/h

- ○ D) 50 km/h
  Ans: B

6. If today is Monday, what day will it be after 61 days?

- ○ A) Tuesday

- ○ B) Wednesday

- ○ C) Thursday

- ○ D) Saturday
  Ans: C

7. A man buys an article for ₹500 and sells it for ₹600. Find the profit %.

- ○ A) 10%

- ○ B) 20%

- ○ C) 25%

- ○ D) 30%
  Ans: C

8. What is the next number in the pattern? 81, 27, 9, 3, ?

- ○ A) 1

- ○ B) 2

- ○ C) 0

- ○ D) 3
  Ans: A

9. Solve: 15 + 3 × 2 = ?

- ○ A) 36

- ○ B) 21

- ○ C) 31

- ○ D) 27
  Ans: B

10. The average of 4, 5, 6, 7 is:

- ○ A) 5

- ○ B) 5.5

- ○ C) 6

- ○ D) 6.5
  Ans: C

11. A clock shows 3:15. What is the angle between the hour and minute hands?

- ○ A) 7.5°

- ○ B) 0°

- ○ C) 15°

- ○ D) 30°
  Ans: A

12. If A = 1, B = 2, C = 3, what is the value of FACE?

- ○ A) 16

- ○ B) 18

- ○ C) 20

- ○ D) 22
  Ans: C

13. What is 3/4 of 80?

- ○ A) 40

- ○ B) 50

- ○ C) 60

- ○ D) 70
  Ans: C

14. Simplify: $(10+2)24\frac{(10 + 2)^2}{4}4(10+2)2$

- ○ A) 36

- ○ B) 144

- ○ C) 24

- ○ D) 36
  Ans: A

15. If 12 pens cost ₹96, what is the cost of 1 pen?

- ○ A) ₹8

- ○ B) ₹9

- ○ C) ₹7

- ○ D) ₹10
  Ans: A