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# PUNJAB UNIVERSITY ENTRY TEST PAST PAPERS

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MCQs 2023-2025



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# Punjab University Entry Test Preparation Past Papers

## 2023 Past Papers

### PHYSICS:

What can be calculated from the curve under PV graph?

- A. Heat
- B. Temperatures
- C. Work done
- D. Internal energy

The resultant magnitude of 6N force acting at right angle to an 8N force is:

- A. 2N
- B. 14 N
- C. 8N
- D. 10 N

Linking SHM with circular motion, when the phase of vibration  $\theta = 1/2$  radians then of the cycle is completed.

- A. Quarter
- B. Half
- C. Three – Fourth
- D. Complete trip

A cycle tyre bursts suddenly, it represents

- A. Isothermal expansion
- B. Adiabatic expansion
- C. Adiabatic compression
- D. Isothermal compression

Kilowatt-hour is the unit of:

- A. Proton
- B. Electron
- C. Neutron
- D. Nucleus

Which one of the following has greater K.E?

- A. Charge
- B. Energy

- C. Power
- D. Voltage

Indicate high frequency electromagnetic waves:

- A. Bernoulli's theorem
- B. Venturi relation
- C. Stoke's Law
- D. Equation of continuity

Law of conservation of energy is on the basis of

- A. Microwaves
- B. Radio waves
- C. X-rays
- D. Gamma rays

The brightness of wave form on the screen of CRO is controlled by:

- A. Free space
- B. Bodies of all shape
- C. Viscous medium
- D. All medium

Stock's law holds for the

- A. Potential of anode
- B. Potential of cathode
- C. Potential of grid
- D. Potential of plates

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- A. Free space
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- D. All medium

When  $X_L = X_C$ , this condition is called:

- A. Particle waves
- B. Longitudinal waves
- C. Stationary waves
- D. Transverse wave

The compressions and elongations are formed in:

- A. Null
- B. Balanced
- C. Resonance
- D. Absolute

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- C. Stationary waves
- D. Transverse wave

Bremsstrahlung or braking radiation are examples of:

- A. Continuous Spectra
- B. Band Spectra
- C. Absorption Spectra
- D. Discrete of Line Spectra

The current produced in a coil due to electromagnetic induction is called

- A. Positive current
- B. Negative current
- C. Induced current
- D. Mutual current

The ratio of stress to volumetric strain is called:

- A. Shear Modulus
- B. Young's Modulus
- C. Bulk Modulus
- D. Modulus of elasticity

Light glare can be reduced by the process of

- A. Reflection
- B. Polarization
- C. Diffraction
- D. Refraction

Which of the following devices is more accurate?

- A. Vernier calipers
- B. Screw gauge
- C. Meter rule
- D. Measuring tape

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A black body is an

Ideal absorber

- A. Ideal radiator
- B. Both a and b
- C. Good absorber

The central region of transistor is called:

- A. Collector E
- B. Base

- C. Emitter
- D. Cathode

## Chemistry

Following is used in making fire proof clothes

- A. Water glass
- B. Borax glass
- C. Kaolin
- D. Asbestos

Which one of the following elements occur free in nature:

- A. Sb
- B. As
- C. N
- D. P

Which type of reactions are given by alkanes

- A. Addition
- B. Substitution
- C. Elimination
- D. Polymerization

Alkanoic acid is another name of:

- A. Aldehyde
- B. Ketones
- C. Carboxylic acid
- A. D Alcohols

Acetamide is prepared by

- A. heating methyl cyanide
- B. heating ammonium acetate
- C. heating ethyl acetate
- D. heating ammonia

The hydrolysis of fats is brought about by

- A. Lipase
- B. Maltase
- C. Zymase
- D. Urease

Which of the following compounds is acetophenone?

- A.  $C_6H_5COCH_3$
- B.  $C_6H_5COC_6H_5$
- C.  $CH_3COCH_3$
- D.  $C_6H_5CHO$

Which of the following substance is used to absorb carbon dioxide gas in combustion analysis?

- A. 50% KOH
- B.  $Al_2O_3$
- C.  $SiO_2$
- D.  $Mg(ClO_4)_2$

In decolorizing process, animal charcoal is boiled with

- A. Acidic  $H_2O$
- B. Alkaline  $H_2O$
- C. Hot water
- D. Suitable solvent

The temperature of natural plasma is about

- A. 20000 C
- B. 10000 °C
- C. 5000 °C
- D. 1000 °C

The arrangement of particles in a body-centered cubic (BCC) unit cell consists of

- A. One particle at the center and eight particles at the corners
- B. One particle at the center and six particles at the faces
- C. Eight particles at the corners only
- D. One particle at the center only

Which one of the following molecule has  $sp^3$  hybridization?

- A.  $CH_4$
- B.  $C_2H_4$
- C.  $CO_2$
- D.  $C_2H_2$

Geometry of water according to VSEPR theory is

- A. Pyramidal
- B. Trigonal
- C. Tetrahedral

D. Bent angular

The number of moles of solute dissolved per Kg of solvent is called

- A. Molality
- B. Molarity
- C. Mole fraction
- D. Normality

When HCl is added to aqueous  $\text{HS}^-$ , its ionization

- A. Increases
- B. Decreases
- C. No effect
- D. First decreases then increases

Which of the following is an example of a colligative property of a solution?

Boiling point elevation

- A. Solubility
- B. Viscosity
- C. pH

If a strip of Cu metal is placed in a solution of  $\text{FeSO}_4$ .

- A. Cu will be precipitated down
- B. Fe is precipitated out
- C. Cu and Fe both dissolve
- D. No reaction takes place

The rate expression for a reaction is given as  $\text{rate} = k[\text{A}]^2$ . What is the overall order of the reaction?

- A. 2
- B. 3
- C. 5
- D. 6

A single chlorine free radical can destroy how many ozone molecules

- A. 100
- B. 100000
- C. 10000
- D. 10

Which type of reactions are given by alkanes

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- C. Elimination
- D. Polymerization

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- D. Alcohols

Acetamide is prepared by

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- B. heating methyl cyanide
- C. heating ethyl acetate
- D. heating ammonia

Which is not a nucleophile?

- A.  $H_2O$
- B.  $H_2S$
- C.  $NH_3$
- D.  $BF_3$

## 2024 past papers

### Physics

1. If a wire has a resistance of 0.5 ohm, then its conductance is:
  - A. 1 S
  - B. 1.5 S
  - C. 2 S
  - D. 5 S
2. Addition of vectors obeys \_\_\_\_\_ law?
  - A. Commutative Law
  - B. Associative Law
  - C. Distributive Law
  - D. All of these
3. If a vector  $\vec{A}$  is making an angle " $\phi$ " with positive y-axis then which of the following is correct.?
  - A.  $A_x = A \cos \phi$
  - B.  $A_y = A \sin \phi$
  - C.  $A_y = A \cos \phi$
  - D. None
4. Which of the following is reverse process of composition of vectors?
  - A. Addition of vectors
  - B. Subtraction of vectors
  - C. Multiplication of vectors
  - D. Resolution of vectors
5. Speed of a body can not be \_\_\_\_\_?
  - A. Zero
  - B. Positive
  - C. Negative
  - D. None
6. Newton's first law of motion is valid in \_\_\_\_\_?
  - A. Accelerated frame of reference
  - B. Inertial frame of reference
  - C. Non-inertial frame of reference

D. None

7. The ratio of displacement to distance can not be \_\_\_\_\_?

- A. Equal to one
- B. Less than one
- C. Greater than one
- D. All are possible

8. If the distance-time graph gives a straight line then body possesses \_\_\_\_\_?

- A. Zero Velocity
- B. Uniform Velocity
- C. Variable Velocity
- D. None

9. When average and instantaneous velocities become equal then body possess \_\_\_\_\_?

- A. Uniform Velocity
- B. Variable Velocity
- C. Uniform Acceleration
- D. Variable Acceleration

10. The slope of velocity-time graph gives \_\_\_\_\_?

- A. Speed
- B. Velocity
- C. Acceleration
- D. All of these

11. If the velocity-time graph gives a parabolic curve then body possesses \_\_\_\_\_?

- A. Variable acceleration
- B. Constant acceleration
- C. Zero acceleration
- D. All of these

12. The mass of Platinum cylinder kept near Paris is \_\_\_\_\_?

- A. 1 gram
- B. 1 Kg
- C. 100 Kg
- D. None

13. A vector can have maximum \_\_\_\_\_ components in a plane.?

- A. Zero

- B. Two
- C. Three
- D. Infinite

14. A vector can have maximum \_\_\_\_\_ components in space.?

- A. Zero
- B. Two
- C. Three
- D. Infinite

15. For what value of “a”, the magnitude of a vector  $A = 2\hat{i} + \hat{j} + a\hat{k}$  should be 3?

- A. -2
- B. 2
- C. 4
- D. Both A & B

16. The vector  $A = 2\hat{i} + 2\hat{j}$  makes \_\_\_\_\_ angle with x-axis.?

- A.  $30^\circ$
- B.  $45^\circ$
- C.  $60^\circ$
- D.  $90^\circ$

17. Which of the following can not be the resultant of two vectors having magnitude 10N and 15N?

- A. 18N
- B. 22N
- C. 25N
- D. 30N

18. Which of the following pair of forces can produce a resultant of 8N?

- A. 2N & 5N
- B. 20N & 2N
- C. 3N & 6N
- D. 4N & 1N

19. What is the minimum number of unequal magnitude vectors required to get a null vector?

- A. Zero
- B. Two
- C. Three
- D. None

20. Angle between the rectangular components of a vector is \_\_\_\_\_?

- A. Zero
- B.  $30^\circ$
- C.  $45^\circ$
- D.  $90^\circ$

21. Which of the following group of forces can produce equilibrium?

- A. 12N, 5N, 20N
- B. 4N, 2N, 10N
- C. 10N, 18N
- D. 12N, 5N, 15N

22. Which of the following is path function?

- A. Internal energy
- B. work and heat
- C. Enthalpy
- D. Entropy

23. 1atm is equal to

- A. 760 torr
- B. 760 mmHg
- C. 101.3 kPa
- D. all of the above

24. Product of time period and frequency is \_\_\_\_\_?

- A. Time period
- B. Frequency
- C. Unity
- D. Velocity

25. Product of wavelength and time period is \_\_\_\_\_?

- A. Frequency
- B. Velocity
- C. Time period
- D. Wavelength

26. Unit vector is used to specify the \_\_\_\_\_?

- A. Magnitude
- B. Velocity
- C. Direction of vector

D. Frequency

27. Inertia is depends upon only?

- A. Velocity
- B. Direction
- C. Mass
- D. Time

28. We have two bodies, One is moving with 2m/s velocity and other is at rest, which one has greater inertia?

- A. Moving body
- B. Body is at rest
- C. Both have not any inertia
- D. Both have same inertia because inertia depends upon mass only

29. Study of sound is called \_\_\_\_\_?

- A. Soundlogy
- B. Acoustics
- C. Neurology
- D. Physiology

30. Which of the following is not a unit of length?

- A. light year
- B. radian
- C. angstrom
- D. micron

31. A train is moving with a speed of 100mph. What will be its speed in m/s.?

- A. 45 m/s
- B. 90 m/s
- C. 100 m/s
- D. 120 m/s

32. Which of the following is a good moderator?

- A. Helium
- B. Cadmium
- C. Graphite
- D. Ordinary Water

33. Power of a lens is one diopter if its focal length is

- A. 1 meter
- B. 2 meter
- C.  $\frac{1}{2}$  meter
- D.  $\frac{1}{4}$  meter

34. The anti-matter is composed of: \_\_\_\_\_?

- A. Anti-electrons
- B. Anti-proton
- C. Anti-neutron
- D. All of these

35. Length, mass, time, intensity of light and amount of substance are examples of \_\_\_\_\_?

- A. Base quantities
- B. Derived quantities
- C. Prefixes
- D. Quartile quantities

36. Optics does not deal with \_\_\_\_\_?

- A. Nature of light waves
- B. Properties of light
- C. Characteristics of sound
- D. Lenses and mirrors

37. Which one of the following of glass can cut ultraviolet rays?

- A. Jena Glass
- B. Soda Glass
- C. Pyrex Glass
- D. Crookes Glass

38. When two charges are placed in water then the Coulomb force between them reduces to \_\_\_\_\_?

- A.  $\frac{1}{2}$  times
- B.  $\frac{1}{3}$  times
- C.  $\frac{1}{78}$  times
- D.  $\frac{1}{58}$  times

39. Mach is the unit of measurement in stating the speed of a moving object in relation to \_\_\_\_\_?

- A. The speed of sound
  - B. The speed of other object
  - C. The speed of light
  - D. The speed of air resistance
40. The process in which no heat enters or leave the system known as \_\_\_\_\_?
- A. Isochoric
  - B. Isobaric
  - C. adiabatic
  - D. Isothermal
41. The system which can exchange matter as well as energy with its surroundings is called \_\_\_\_\_?
- A. open system
  - B. Closed system
  - C. Isolated system
  - D. Inert system
42. The back emf of a motor which is just started is \_\_\_\_\_?
- A. Zero
  - B. Maximum
  - C. Minimum
  - D. Optimum
43. The light used in optical fiber transmission is \_\_\_\_\_?
- A. Dichromatic
  - B. Monochromatic
  - C. Pentachromatic
  - D. None of these
44. The reverse of LED is \_\_\_\_\_?
- A. Diode
  - B. Resistor
  - C. Photodiode
  - D. Capacitor
45. Ceramic magnets are \_\_\_\_\_?
- A. Semiconductors
  - B. Insulators
  - C. Conductors

D. None of these

46. When a projectile moves upward , its vertical component of velocity?

- A. Decrease
- B. increase
- C. Remains same
- D. None of these

47. The co efficient of linear expansion is equal to \_\_\_\_\_ ?

- A.  $\Delta L = \alpha L \Delta T$
- B.  $\Delta L / L \Delta T$
- C.  $L \Delta T / \Delta L$
- D.  $\alpha L \Delta T - \Delta L$

48. Value of 'g' at the surface of moon is \_\_\_\_\_ ?

- A. 6ge
- B. ge/6
- C. 2ge
- D. Zero

49. Intensity level of threshold of pain is: \_\_\_\_\_ ?

- A. 60 db
- B. 80 db
- C. 100 db
- D. 120 db

50. A body is falling freely under gravity. How much distance it falls during an interval of time between 1st and 2nd seconds of its motion, taking  $g=10$  ?

- A. 15 m
- B. 20 m
- C. 5 m
- D. 25 m

51. When the charge particle enters parallel to magnetic field then their particles are

- A. Helix
- B. Line
- C. Circle

26. Which is independent of time period of moving a charge particle inside a magnetic field ?  
charge

- A. mass
- B. velocity of particle
- C. magnetic field

27. The unit of  $\frac{1}{2}pv^2$  is same of that

- A. Work
- B. Force
- C. Volume

Which is vector quantity?

- A. time
- B. mass
- C. displacement
- D. temperature

What best defines laminar flow?

- A. A type of flow in which liquid particles move in random directions
- B. A flow with swirling motions and turbulence
- C. A smooth, orderly flow of fluid in parallel layers
- D. A rapid flow with sudden changes in pressure

## Chemistry

1. Fehling solution react with HCHO to form precipitate of \_\_\_\_\_?

- A. White colour
- B. Yellow colour
- C. Red colour
- D. Blue colour

2. In Aldehydes and Ketones, carbon of carbonyl group is \_\_\_\_\_?

- A.  $sp^3$  hybridised
- B.  $sp^2$  hybridised
- C.  $sp$  hybridised
- D. Unhybridised

3. Which of the following gases when passed through warm dilute solution of  $H_2SO_4$  in presence of  $HgSO_4$  gives acetaldehyde

- A.  $CH_4$
- B.  $C_2H_6$

- C. C<sub>2</sub>H<sub>4</sub>
- D. C<sub>2</sub>H<sub>2</sub>

4. The process by which a substance absorbs moisture upon exposure to atmosphere is called?

- A. Efflorescence
- B. Dehydrogenation
- C. Desalination
- D. Deliquescence

5. Amino acids are a product of the digestion of: \_\_\_\_\_?

- A. Carbohydrates
- B. Fats
- C. Proteins
- D. Vitamins

6. 24g of an unknown gas occupied 8.4dm<sup>3</sup> at STP, Identify the gas among the following

- A. SO<sub>3</sub>
- B. SO<sub>2</sub>
- C. C<sub>6</sub>H<sub>6</sub>
- D. C<sub>3</sub>H<sub>8</sub>

7. The maximum mass is present in 1dm<sup>3</sup> for the following gas at STP.

- A. C<sub>3</sub>H<sub>8</sub>
- B. CO<sub>2</sub>
- C. CO
- D. CS<sub>2</sub>

8. The maximum amount of product obtained by balanced chemical equation is called as \_\_\_\_\_?

- A. Practical yield
- B. Theoretical yield
- C. Actual yield
- D. None of these

9. The theoretical yield is, when % yield and actual yield are 55% and 24g respectively:

- A. 40g
- B. 43.6g
- C. 45g
- D. 41.4g

10. The one mole of \_\_\_\_\_ molecule has the highest number of atoms?

- A. H<sub>2</sub>SO<sub>4</sub>
- B. HClO<sub>4</sub>
- C. O<sub>3</sub>
- D. H<sub>2</sub>C<sub>2</sub>O<sub>4</sub>

11. Viscosity of a liquid \_\_\_\_\_ by increasing temperature?

- A. Remains same
- B. Increases
- C. Decreases
- D. None

12. Which instrument is used to measure the viscosity.?

- A. Hygrometer
- B. Hydrometer
- C. Anemometer
- D. Viscometer

13. Surface Tension \_\_\_\_\_ with increasing the surface area of liquid?

- A. Decreases
- B. Increases
- C. Remains Same
- D. None

14. Hydrogen bonding is present in \_\_\_\_\_?

- A. Water
- B. Ethyl Alcohol
- C. Phenol
- D. All of these

15. Acetaldehyde cannot show

- A. Iodoform test
- B. Lucas test
- C. Benedict's test
- D. Tollen's test

16. The Clemmenson reduction of acetone yields

- A. Ethanol
- B. Ethanal
- C. Propane
- D. Propanol

17.  $O_3$  reacts with  $CH_2=CH_2$  to form ozonide. On hydrolysis it forms
- Ethylene oxide
  - HCHO
  - Ethylene glycol
  - Ethyl alcohol
18. Dimethyl ketones are usually characterized through \_\_\_\_\_?
- Tollen's reagent
  - Iodoform test
  - Schiff's test
  - Benedict's reagent
19. Silver mirror is a test for \_\_\_\_\_?
- Aldehydes
  - Thio alcohols
  - Amines
  - Ethers
20. The typical reactions of aldehyde is \_\_\_\_\_?
- Electrophilic addition
  - Nucleophilic substitution
  - Nucleophilic addition
  - Nucleophilic elimination
21. Who is often referred to as the "father of Chemistry"?
- Isaac Newton
  - Antoine Lavoisier
  - Dmitri Mendeleev
  - Albert Einstein
22. The theory which explains the behavior of particles of matter in motion is called \_\_\_\_\_?
- Bohr's Theory
  - Dalton's Theory
  - Kinetic Molecular Theory
  - None
23. According to Kinetic Molecular Theory gas molecules move in \_\_\_\_\_ path?
- Straight
  - Parabolic
  - Zig-zag

D. Hyperbolic

24. Value of normal atmospheric pressure at sea level at  $0^{\circ}\text{C}$  is \_\_\_\_\_?

- A. 1 atm
- B. 760 Torr
- C. 76cm of Hg
- D. All of these

25. Barometer was invented by \_\_\_\_\_?

- A. Pascal
- B. Torricelli
- C. Newton
- D. Huygen

26. Boyle's Law was given by the Robert Boyle in \_\_\_\_\_?

- A. 1660
- B. 1661
- C. 1662
- D. 1663

27. Which of the following is known as absolute zero?

- A.  $0\text{C}^{\circ}$
- B. 273K
- C.  $273.16\text{C}^{\circ}$
- D.  $-273.16\text{C}^{\circ}$

28. Charle's Law was given by Jacques Charles in \_\_\_\_\_?

- A. 1785
- B. 1787
- C. 1880
- D. 1885

29. Real gases show ideal behavior at \_\_\_\_\_?

- A. Low Temp & High Pressure
- B. High Temp & Low Pressure
- C. High Temp & High pressure
- D. Low Temp & Low Pressure

30. Which of the following is unit of Viscosity?

- A. Decibell

- B. Torr
- C. Poise
- D. Hertz

31. What is the color of copper sulfate crystalline?

- A. White
- B. Brown
- C. Blue
- D. Green

32. Which of the following is the use of Silver nitrate?

- A. used as mordant in dyeing
- B. used in photography and medicines
- C. used in making green pigments
- D. All of these

33. What is the color of precipitates of AgBr?

- A. Light brown
- B. Light green
- C. Light Blue
- D. Light yellow

34. Which of the following is used with milk of lime to kill fungus and molds?

- A. Chlorine
- B. Silver nitrate
- C. Copper Sulfate
- D. Nitric acid

35. A gas was found to have a density of 0.0847g/L at 17°C and a pressure of 760 torr. The gas must be?

- A. CH<sub>4</sub>
- B. He
- C. N<sub>2</sub>
- D. None of These

36. At what digit of PH scale PH is neutral?

- A. 5
- B. 3
- C. 7
- D. 10

37. The range of acid PH on PH scale is \_\_\_\_\_ ?

- A. 9 to 8
- B. 6 to 7
- C. 1 to 6
- D. 1 to 10

38. Alkaline PH scale starts from?

- A. 8 to 14
- B. 6 to 10
- C. 7 to 11
- D. 0 to 14

39. The Substance which resist in change in PH is called?

- A. Neutralization
- B. Osmosis
- C. Buffer
- D. Active transport

40. Quality of petrol is measured by \_\_\_\_\_ ?

- A. octane number
- B. Heptane number
- C. Reforming
- D. Refining

41. Which of the following is used in photography?

- A.  $\text{NaHSO}_3$
- B.  $\text{Na}_2\text{S}_2\text{O}_3$
- C.  $\text{Na}_2\text{S}$
- D.  $\text{Na}_2\text{SO}_3$

42. Which of the following has lowest lattice energy?

- A.  $\text{LiF}$
- B.  $\text{NaCl}$
- C.  $\text{KBr}$
- D.  $\text{CsI}$

43. What is the formula of Silver nitrate?

- A.  $\text{AgNO}$
- B.  $\text{AgNO}_2$
- C.  $\text{AgNO}_3$

D.  $\text{AgNO}_4$

44. Silver nitrate is also known as \_\_\_\_\_ ?

- A. Blue Stone
- B. Blue Vitriol
- C. Lunar Caustic
- D. Both A & B

45. Which of the following produces black spots when it comes in contact with organic substances such as skin and cellulose?

- A.  $\text{CuSO}_4$
- B.  $\text{AgNO}_3$
- C.  $\text{K}_2\text{MnO}_4$
- D.  $\text{CH}_3\text{COOH}$

46. What is the formula of Copper Sulfate?

- A.  $\text{CuSO}_3 \cdot 4\text{H}_2\text{O}$
- B.  $\text{CuSO}_4 \cdot 4\text{H}_2\text{O}$
- C.  $\text{CuSO}_3 \cdot 5\text{H}_2\text{O}$
- D.  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$

47. Which of following is known as Blue Vitriol or Blue Stone?

- A.  $\text{AgNO}_3$
- B.  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
- C.  $\text{K}_2\text{Cr}_2\text{O}_7$
- D.  $\text{K}_2\text{CrO}_4$

48. Silver nitrate is used in laboratory as a reagent for the detection and determination of \_\_\_\_\_ ?

- A. Alkali metals
- B. Aldehydes
- C. Halides
- D. Ketones

49. What is the color of precipitates of  $\text{AgCl}$ ?

- A. Yellow
- B. Green
- C. Blue
- D. White

50. What is the color of precipitates of  $\text{AgI}$ ?

- A. Yellow
- B. Light Yellow
- C. Brown
- D. Blue

## 2025 1<sup>st</sup> Shift MCQs

**1. If we double the time of flight in projectile motion, the distance it covers becomes:**

- A. 2 times
- B. 3 times
- C. ✓ 4 times
- D. 1.5 times

**2. The dimension of power is:**

- A.  $[M L^2 T^{-2}]$
- B. ✓  $[M L^2 T^{-3}]$
- C.  $[M L T^{-2}]$
- D.  $[M L^{-2} T^3]$

**3. Which of the following has the lowest value?**

- A. Peta =  $10^{15}$
- B. Nano =  $10^{-9}$
- C. Femto =  $10^{-15}$
- D. ✓ Atto =  $10^{-18}$

**4. What will happen if we double the mass of a pendulum?**

- A. Time period doubles
- B. Time period becomes half
- C. Time period increases slightly
- D. ✓ Time period remains unchanged

**ENGLISH:**

Complete the analogy: "Comedy is to laughter as tragedy is to \_\_\_\_\_"

- a) joy
- b) sorrow
- c) anger
- d) excitement

Which of the following words is spelled correctly?

- a) Concentage
- b) Concentric
- c) Concentrick
- d) Concentric

Choose the antonym for "Big".

- a) Small
- b) Large
- c) Huge
- d) Enormous

The lady talked with great

- a) doubt
- b) conviction
- c) hesitation
- d) uncertainty

What is the synonym of "condemn"?

- a) Praise
- b) Support
- c) Approve
- d) Denounce

What is the plural of "tooth"?

- a) Tooth
- b) Toths
- c) Teeth
- d) Teethes

The cat loves to \_\_\_\_\_ in the garden.

- a) play
- b) read
- c) sleep
- d) eat

Doctor is to hospital as Chef is to:

- a) Restaurant
- b) Kitchen
- c) Food
- d) Cook

"He hurt himself while running today." Correct the verb.

- a) Hurted
- b) Had hurt
- c) Hurt
- d) Hurts

What is the correct spelling of "Judgement"?

- a) Judgement
- b) Judgment
- c) Judgmet
- d) Judgemente

He is endowed \_\_\_\_\_ great qualities.

- a) in
- b) of
- c) with
- d) from

Choose the correct sentence.

- a) I ran as fast as I could.
- b) I I run as fast as I could run.
- c) I run fast as I could.
- d) I ran fast as I could

What is the plural of "child"?

- a) Childs
- b) Childes
- c) Children
- d) Childish

What is the antonym of "beautiful"?

- a) Ugly
- b) Pretty
- c) Attractive
- d) Lovely

He is good \_\_\_\_\_ mathematics

- a) in
- b) at
- c) on
- d) with

Choose the correct spelling:

- a) Consecus
- b) Consesus
- c) Concesus
- d) Consensus

In the sentence "My grandmother is very talkative," identify the underlined word's part of speech.

- a) Adjective
- b) Noun
- c) Verb
- d) Adverb

Choose the synonym for "Conviction".

- a) Doubt
- b) Belief
- c) Uncertainty
- d) Hesitation

Choose the synonym of the word "Probably":

- a) Certainly
- b) Rarely
- c) Possibly
- d) Never

### General Maths

Three partners shared the profit in a business in the ratio 5: 7: 8. They had partnered for 14 months, 8 months and 7 months respectively. What was the ratio of their investments?

- a) 5:7:8
- b) 20:49:64
- c) 38:28:21
- d) None of these

A student needs to read a 300-page book in 10 days. If the student reads the same number of pages each day, how many pages should be read per day?

- A. 10 pages
- B. 20 pages
- C. 30 pages
- D. 40 pages

A pizza is divided into 10 equal slices. If 4 slices are eaten, what fraction of the pizza remains?

- A.  $\frac{1}{2}$
- B.  $\frac{3}{5}$
- C.  $\frac{6}{10}$
- D.  $\frac{7}{10}$

In a class, 20% of students wear glasses, 30% wear contact lenses, and 10% wear both glasses and contact lenses. What percentage of students in the class wear either glasses or contact lenses?

- A. 20%
- B. 30%
- C. 40%
- D. 60%

What is the value of  $x$  in the equation  $3x + 7 = 22$ ?

- A. 4
- B. 5
- C. 5.67
- D. 6

What is the sum of the interior angles of a triangle?

- A. 90 degrees
- B. 180 degrees
- C. 270 degrees
- D. 360 degrees

Angle which is less than  $90^\circ$  is called

- A. acute angle
- B. right angle
- C. obtuse angle
- D. reflex angle

If the length of a rectangle is 8 units and the width is 3 units, what is its perimeter?

- A. 11 sq. units
- B. 16 sq. units
- C. 22 sq. units
- D. 24 sq. units

The sum of two numbers is 35. If one number is & more than the other, what are the numbers?

- A. 14 and 21
- B. 15 and 20
- C. 12 and 23
- D. 10 and 25

What is the sum of the prime numbers between 20 and 30?

- A. 52
- B. 54
- C. 56
- D. 58

If a number is multiplied by 7 and then divided by 4, the result is 14. What is the number?

- a) 8
- b) 16
- c) 24
- d) 28

If a person sells 500 bottles in 8 hours, how many can they sell in 12 hours at the same rate?

- A. 600
- B. 700
- C. 750
- D. 800

If the average of four numbers is 10, and three of the numbers are 8, 12, and 9, what is the fourth number?

- A. 9
- B. 11
- C. 12
- D. 13

If the average of three numbers in a ratio of 3:5:7 is what is the youngest number?

- A. 3
- B. 5
- C. 7
- D. 9

A bag contains 5 red balls and 3 blue balls. If one ball is drawn at random, what is the probability that it is red?

- A.  $\frac{3}{8}$
- B.  $\frac{5}{8}$
- C.  $\frac{1}{2}$
- D.  $\frac{1}{3}$

If  $x$  is greater than 5 and less than 10, then what is the possible value of  $x$ ?

- E. 4
- F. 6
- G. 10
- H. 11

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