

# ENGLISH

1. They are laughing \_\_\_\_\_ him.  
a. On    b. at    c. in    d. upon
2. I have to go for a meeting. The underlined word is \_\_\_\_\_  
a. preposition                          b. conjunction                          c. infinitive                          d. none of these
3. 'He cut a tree'. Its passive voice is; A tree \_\_\_\_\_ cut by him.  
a. Is    b. was    c. has been    d. had been
4. He said, 'Are you feeling well? Its indirect narration is ; he asked if \_\_\_\_\_ felling well  
a. I am    b. I was    c. I had been    d. you were
5. The participle form of verb used as a noun is called \_\_\_\_\_  
a. pronoun    b. helping verb    c. Gerund    d. none of these
6. An adverbial accusative is a \_\_\_\_\_ in the function of an adverb  
a. Noun    b. adverb    c. preposition    d. relative pronoun
7. He is knocking \_\_\_\_\_ the door  
a. On    b. at    c. in    d. upon
8. He has been sleeping \_\_\_\_\_ two hours.  
a. since    b. for    c. far    d. from
9. God \_\_\_\_\_ those who help themselves.  
a. help    b. helped    c. helps    d. helping
10. the National Horse and cattle show is held at \_\_\_\_\_  
a. Karachi    b. Peshawar    c. Sialkot    d. Lahore
11. He spends his money foolishly, the word foolishly is \_\_\_\_\_  
a. A verb    b. an adverb    c. a noun    d. article
12. The poem "The Voice of God" has been written by \_\_\_\_\_  
a. Izra Pound                          b. Robert Frost                          c. L.I. Newman                          d. None of these
13. He jumped \_\_\_\_\_ the fence  
a. On    b. under    c. over    d. in
14. The noun child is a \_\_\_\_\_ gender  
a. Masculine    b. Feminine    c. Common    d. Neuter
15. Go and place the money \_\_\_\_\_ the box  
a. On    b. under    c. over    d. in
16. All is well that \_\_\_\_\_ well  
a. starts    b. runs    c. works    d. ends
17. 'Mingled' means \_\_\_\_\_  
a. spread    b. scattered    c. mixed    d. displaced
18. Adverb of manner answers the question \_\_\_\_\_  
a. how    b. when    c. why    d. what
19. She goes to school. The underlined word is \_\_\_\_\_  
a. On    b. at    c. in    d. upon
20. All things bright and \_\_\_\_\_ all creatures great and small.  
a. wonderful    b. cheerful    c. tall    d. beautiful
21. He jumped \_\_\_\_\_ the river.  
a. Into    b. in    c. off    d. to
22. He writes badly. The underlined word is \_\_\_\_\_  
a. Verb    b. adjective    c. adverb of manner                          d. adverb of place
23. Think a hundred times before you take \_\_\_\_\_  
a. An undertaking                          b. the decision                          c. the route                          d. the revenge
24. Computers are \_\_\_\_\_  
a. Electrical    b. electronic    c. mechanical    d. software
25. 'Loopholes' means \_\_\_\_\_  
a. Weak points                          b. bad habits                          c. a kind of holes                          d. holes for oops

# PHYSICS

## Fill in the blanks.

- The mass of a proton is ..... times the mass of an electron.  
a.  $1/1836$       b. 1836      c.  $1.67 \times 10^{-27}$       d. 1800
- Radio waves travel through air at a speed of ..... m/s  
a.  $3 \times 10^{12}$       b.  $3 \times 10^{11}$       c.  $3 \times 10^{11}$       d.  $3 \times 10^8$
- The penetrating power of  $\gamma$  – rays is ..... times larger than that of  $\beta$  – rays:  
a. 2      b. 100      c. 50      d. 4
- The property of sound by which a shrill sound is distinguished from a flate or grave one is called.  
a. Quality      b. Loudness      c. Intensity      d. Pitch
- The speed of sound in air is ..... than a man's voice.  
a. 1450      b. 1480      c. 330      d. 5130
- A woman's voice is of higher ..... than a man's voice.  
a. Velocity      b. Frequency      c. Wave Length      d. Amplitude
- Charge carriers in n-type material are .....  
a. Electrons      b. Lons      c. Protons      d. Holes
- Temporary Magnet is used in .....  
a. Telephone      b. Transistor      c. Electric bell      d. Watch
- A conducting material has enormous number of .....  
a. Proton      b. Neutron      c. a-particle      d. Electron
- Fax machine converts a document into .....  
a. Electrical signals      b. Radio Waves      c. Light Signals      d. Magnetic waves
- The unit of frequency is .....  
a. Seconds      b. Decibel      c. Pascal      d. Hertz
- ..... is necessary for propagation of sound.  
a. Force      b. Vacuum      c. Medium      d. Amplitude
- A current measuring instruments is called .....  
a. Voltmeter      b. galvanometer      c. ammeter      d. Speed metre
- When  $\alpha$ particle passes through a gas it produces .....  
a. Oxidation      b. Ionization      c. Evaporation      d. Fission
- The information stored on CD can be read by using .....  
a. X-rays      b.  $\alpha$ - rays      c. Laser rays      d.  $\gamma$ - rays
- The ratio of the size of image to the size of the object is called .....  
a. Focal Length      b. Aperture      c. Magnification      d. Principal axis
- The intensity of sound is expressed in the units of .....  
a. Watt/m<sup>2</sup>      b. Newton /m<sup>2</sup>      c. Joule/Sec      d. Decibel
- Focal length of a spherical mirror is ..... the radius of its curvature  
a. Twice      b. Thrice      c. Half      d. 1 / 4
- The mass of an electron in kg is .....  
a.  $9.1 \times 10^{-31}$       b.  $1.67 \times 10^{-27}$       c.  $6.02 \times 10^{-23}$       d.  $6 \times 10^{24}$
- Which lens is used to form a real image?  
a. Convex      b. Concave      c. Plane      d. None of these
- Rainbow is formed due to ..... Reflection of light.  
a. Total internal      b. Irregular      c. Regular      d. Total external
- The unit of capacitance is .....  
a. Ohm      b. Coulomb      c. Farad      d. Electron volt
- The angle between rectangular components of a vector is .....  
a. 0°      b. 30°      c. 60°      d. 90°
- A TV camera and a Microphone convert moving pictures and sound into .....  
a. Radio waves      b. Light signals      c. Radar signals      d. Electrical signals
- The energy of SHO at extreme position is .....  
a. K.E      b. P.E      c. Zero      d. K.E & P.E

# CHEMISTRY

## Fill in the blanks.

- The fuel used in Rockets is .....  
b. Natural Gas    b. Petroleum    c. Acetylene    d. Liquid Hydrogen
- ..... is the number of moles of solute dissolved per liter of solution.  
b. Molality    b. Normality    c. Molarity    d. Solvent
- The chemical formula of Magnetic oxide .....  
b.  $\text{Fe}_2\text{O}_3$     b.  $\text{Fe O}$     c.  $\text{Fe}_3\text{O}_4$     d.  $\text{Fe}_2\text{O}_3 \cdot 2\text{H}_2\text{O}$
- If 8 g of NaOH is dissolved in 250 ml of water. What will be the Molarity of Solution?  
b. 0.32    b. 3.125    c. 8    d. 0.8
- Bleaching powder contains .....  
b. Fluorine    b. Chlorine    c. Bromine    d. Iodine
- Different physical forms of the same element are called .....  
b. Allotropes    b. Isomers    c. Isobars    d. Isotopes
- The symbol of Silicon is .....  
b. Se    b. S    c. Si    d. Sn
- Galena is an ore of .....  
b. Sulphur    b. Iron    c. Aluminum    d. Copper
- OH is a functional group of .....  
b. Alkane    b. Alkene    c. Alcohol    d. Alkyne
- The Radioactive element of 7<sup>th</sup> group of periodic table is .....  
b. Chlorine    b. Bromine    c. Fluorine    d. Astatine
- Chemical formula of Hydrogen peroxide is .....  
b.  $\text{HO}_2$     b.  $\text{H}_2\text{O}$     c.  $\text{H}_3\text{O}$     d.  $\text{H}_2\text{O}_2$
- An alloy of Copper and Zinc is .....  
b. Steel    b. Brass    c. Nichrome    d. Bronze
- Brine is a solution which contains .....  
b.  $\text{NH}_3$     b.  $\text{CaCO}_3$     c.  $\text{NaCl}$     d.  $\text{Na}_2\text{CO}_3$
- Oxygen is present in air by Volume .....  
b. 78%    b. 21%    c. 29%    d. 22%
- Temporary hardness of water is due to .....  
b.  $\text{CaCl}_2$     b.  $\text{CaSO}_4$     c.  $\text{Ca}(\text{HCO}_3)_2$     d.  $\text{CaCO}_3$
- Chemical formula of Iron pyrite is .....  
b.  $\text{Fe}_2\text{O}_3$     b.  $\text{Fe}_3\text{O}_4$     c.  $\text{FeS}_2$     d.  $\text{Cu}_2\text{S} \cdot \text{Fe}_2\text{S}_3$
- Chemical formula of Sodium thiosulphate is .....  
b.  $\text{Na}_2\text{S}_2\text{O}_7$     b.  $\text{Na}_2\text{SO}_3$     c.  $\text{Na}_2\text{S}_2\text{O}_3$     d.  $\text{Na}_2\text{S}_3\text{O}_3$
- ..... Is malleable and ductile  
b. Carbon    b. Iron    c. Sulphur    d. Phosphorous
- Teflon is a .....  
b. Soap    b. Detergent    c. Plastic    d. Varnish
- The Crystalline form of Silica is .....  
b. Bauxite    b. Limonite    c. Sedrite    d. Quartz
- Blood plasma contains ..... % of water.  
b. 70    b. 80    c. 65    d. 90
- Plastic Sulphur is stable at .....  
b.  $71^\circ\text{C}$     b.  $96^\circ\text{C}$     c.  $119^\circ\text{C}$     d.  $141^\circ\text{C}$
- The general formula for alkene is .....  
b.  $\text{C}_n\text{H}_{2n+2}$     b.  $\text{C}_n\text{H}_{2n}$     c.  $\text{C}_n\text{H}_{2n-2}$     d.  $\text{C}_n\text{H}_{2n+1}$
- $\text{KO}_2$  is an example of .....  
b. Acidic oxide    b. Per oxide    c. Super oxide    d. amphoteric oxide
- Number of moles present in 198 g of water are .....  
a. 19.8    b. 198    c. 11    d. 12.375

# MATHEMATICS

Fill in the blanks.

- If  $A = \begin{bmatrix} -3 & -2 \\ 5 & 1 \end{bmatrix}$ , the  $|A| = \dots\dots\dots$ 
  - 13
  - 13
  - 7
  - 7
- The solution of set of  $x^2 - 3x = 0$  is  $\dots\dots\dots$ 
  - {3}
  - {1, 3}
  - {0, 3}
  - {-3}
- A line segment having both end points on circle and not passing through the center is called  $\dots\dots\dots$ 
  - Chord
  - Secant
  - Diameter
  - None of these
- $\sin 30^\circ = \dots\dots\dots$ 
  - $\tan 30^\circ$
  - $\sec 30^\circ$
  - $\operatorname{cosec} 60^\circ$
  - $\cos 60^\circ$
- An equation having two roots is called  $\dots\dots\dots$ 
  - Linear
  - Cubic
  - Quadratic
  - None of these
- How many points determine a plane?
  - 1
  - 2
  - 3
  - None of these
- If standard deviation of a series is 9, then its variance is  $\dots\dots\dots$ 
  - 81
  - 3
  - 18
  - None of these
- The degree of polynomial  $x^2y^2 - 7xy + 100$  is  $\dots\dots\dots$ 
  - Two
  - Three
  - Four
  - Five
- Difference between the largest and smallest value of a given data is called  $\dots\dots\dots$ 
  - Range
  - Median
  - Mode
  - Mean deviation
- $\cot 20^\circ = \tan \dots\dots\dots$ 
  - $40^\circ$
  - $60^\circ$
  - $70^\circ$
  - $90^\circ$
- If set A has 7 elements and set B has 3 elements, then the number of order pairs in  $A \times B = \dots\dots\dots$ 
  - 10
  - 20
  - 21
  - 22
- The solution set of  $x(x - 5) = 0$  is  $\dots\dots\dots$ 
  - {0,5}
  - {-5, 0}
  - {0}
  - {5}
- If  $13 : 4 = x : 8$ , then  $x = \dots\dots\dots$ 
  - 52
  - 26
  - 32
  - 104
- Line segment joining any point of a circle to its centre is called  $\dots\dots\dots$ 
  - Diameter
  - Arc
  - Chord
  - Radial segment
- $\sec^2\theta = 1 + \dots\dots\dots$ 
  - $\tan^2\theta$
  - $\operatorname{Cot}^2\theta$
  - $\operatorname{Cos}^2\theta$
  - $\operatorname{Sin}^2\theta$
- Point (-2, -2) lies in  $\dots\dots\dots$ 
  - 1<sup>st</sup> quadrant
  - 2<sup>nd</sup> quadrant
  - 3<sup>rd</sup> quadrant
  - None of these
- Eliminating 't' from  $x - t^2 = 0, y = t^3$ , we get  $\dots\dots\dots$ 
  - $x^2 = y$
  - $x^3 = y^3$
  - $x^3 = y^2$
  - $x = y^2$
- An angle inscribed in a semi circle is  $\dots\dots\dots$ 
  - Obtus
  - Right angle
  - Acute angle
  - None of these
- A circle touching sides of a triangle internally is called  $\dots\dots\dots$ 
  - Circumcircle
  - Inscribed circle
  - Escribed circle
  - All of these
- The roots of the equation,  $x^2 - 5x + 6 = 0$  are  $\dots\dots\dots$ 
  - $x = 2, 6$
  - $x = 6, 9$
  - $x = 2, 3$
  - $x = 3, 6$
- The solution set of equation  $ax + b = 0$  is  $\dots\dots\dots$ 
  - $b/a$
  - $-b/a$
  - $ab$
  - $-ab$
- In a right angled triangle the inverse ratio of  $\operatorname{cosec} \theta = \dots\dots\dots$ 
  - $\operatorname{Sin} \theta$
  - $\operatorname{Cos} \theta$
  - $\tan \theta$
  - $\operatorname{Sec} \theta$
- $\dots\dots\dots$  should be subtracted from  $p^2 + 4q^2$  to make the expression complete square.
  - $4pq$
  - $2pq$
  - $pq$
  - $19pq$
- The circle is said to be  $\dots\dots\dots$  If circle of their radii are of the same length
  - Tangent circle
  - Congruent
  - Intersecting
  - Concentric
- $(a + b)^3 = \dots\dots\dots$ 
  - $(a - b)(a^2 + ab + b^2)$
  - $(a + b)(a^2 - ab + b^2)$
  - $a^3 + b^3 + 3ab(a + b)$
  - $a^3 + b^3 - 3ab(a + b)$