

C.V.RAMAN EXAM 2018 - 9th STD NOTES (SCIENCE)

Chapter-1. Laws of motion

- 1) An..... force acting on an object brings it in motion.
a. Balanced b. unbalanced c. gravitational d. none of these
- 2) While sharpening a knife, sparks fly off from the grinding stone.
a. Vertically b. tangentially c. horizontally d. all of these
- 3) Slope of distance-time graph gives in case of uniform motion.
a. Velocity b. mass c. speed d. none of these
- 4) If the velocity of an object changes by unequal amounts in equal time intervals, the object is said to be in..... acceleration.
a. Uniform b. non-uniform c. Linear d. none of these
- 5) The shortest distance between initial and final points of movement of the body is called..... of the body.
a. Displacement b. velocity c. acceleration d. mass
- 6) Retardation meansacceleration.
a. Negative b. positive c. neutral d. none of these
- 7) In a collision..... is always conserved.
a. Total momentum b. zero momentum c. both a and b d. none
- 8)is a quantitative measure of inertia of a body.
a. momentum b. displacement c. velocity d. **Mass**
- 9) When a car stops suddenly, the person inside gets a forward jerk due to.....
a. force b. inertia c. acceleration d. momentum
- 10) The momentum of a body of mass 5 kg is 10 kg m/s, then its velocity will be
a. 2 m/s b. 3 m/s c. 5 m/s d. 4 m/s
- 11) The magnitude of velocity and.....will be equal if motion is along a straight path.
a. Mass b. speed c. acceleration d. none of these
- 12) A force of 400N is applied to a table of mass 80 kg, hence the acceleration produced is
a. 5 m/s^2 b. 4 m/s^2 c. 6 m/s^2 d. 3 m/s^2
- 13) If the velocity of an object performing uniform circular motion is along the..... direction to its position.
a. Upward b. tangential c. downward d. B & C

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- 14) The coin placed on the card sheet does not move along with sheet, when card sheet is flicked with a finger. This is due to.....
- a. Inertia of rest
 - b. inertia of motion
 - c. Newton's third law of motion
 - d. newton's law of gravitation
- 15) A ball at rest released vertically from a height h from ground exhibit maximum velocity
- a. At height $h/2$.
 - b. At height $h/4$
 - c. At height $h/7$
 - d. Just before hitting the ground

Answer:

| | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|-------------|
| 1=b | 2=b | 3=a | 4=b | 5=a | 6=a | 7=a | 8=d | 9=b | 10=a |
| 11=b | 12=a | 13=b | 14=a | 15=d | | | | | |

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Chapter-2. Work and Energy

- 1) Kinetic energyproportional to the square of velocity
 - a. Inversely
 - b. directly
 - c. constant
 - d. none of these
- 2) The CGS unit of work is.....
 - a. Erg
 - b. joule
 - c. watt
 - d. none of these
- 3) The work done is zero if there is no.....
 - a. Energy
 - b. mass
 - c. displacement
 - d. B & C
- 4) The sum of the potential energy and the kinetic energy is.....
 - a. Total mechanical energy
 - b. total electrical energy
 - c. total heat energy
 - d. total thermal energy
- 5) Unit of energy and..... are the same.
 - a. Mass
 - b. work
 - c. speed
 - d. all of these
- 6) Energy is the to do work.
 - a. Power
 - b. rate
 - c. capacity
 - d. tendency
- 7) 1 erg equivalent to
 - a. $1 \text{ dyne} \times 1 \text{ meter}$
 - b. $1 \text{ dyne} \times 1 \text{ centimeter}$
 - c. $1 \text{ Newton} \times 1 \text{ meter}$
 - d. $1 \text{ Newton} \times 1 \text{ centimeter}$
- 8) Kinetic energy comes into picture only when..... is taking place
 - a. Motion
 - b. chemical reaction
 - c. uniform acceleration
 - d. storage of energy
- 9) A 40 kg man possesses a potential energy of 2000J when he stands at the top of wall. The height of the wall be
 - a. 4.2 m
 - b. 6.8 m
 - c. 5.1 m
 - d. 9.8 m
- 10) Flowing water hasenergy.
 - a. Potential
 - b. kinetic
 - c. both a and b
 - d. none of these
- 11) When a person tries to stop a moving car by applying a backward force, the work done by the person is
 - a. Positive
 - b. negative
 - c. zero
 - d. positive/negative
- 12) Joule is the unit of -----
 - a. Force
 - b. energy
 - c. work
 - d. both b and c
- 13) Water stored in the water tank possesses-----
 - a. Potential energy
 - b. kinetic energy
 - c. thermal energy
 - d. none
- 14) 1 horse power is equivalent to -----watt.
 - a. 740
 - b. 745
 - c. 748
 - d. 746

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- 15) The potential energy of your body is least when you are
- a. Sitting on a chair
 - b. sitting on the ground
 - c. sleeping on the ground
 - d. standing on the ground
- 16) Force applied on a wall result into work.
- a. Positive
 - b) negative
 - c) Zero
 - d. Positive / negative
- 17) When fire crackers are exploded the energy which gets converted into sound, light, heat is
- a. Mechanical energy
 - b. Chemical energy
 - c. kinetic energy
 - d) electrical
- 18) When an objects falls solely under the influence of the gravitational force than it is said to be in
- a. Free fall
 - b. free motion
 - c. uniform motion
 - d. uniform acceleration

Answer:

| | | | | | | | | | |
|------|------|------|------|------|------|------|------|-----|------|
| 1=b | 2=a | 3=a | 4=a | 5=b | 6=c | 7=b | 8=a | 9=c | 10=b |
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Chapter-3.Current Electricity

1. The SI unit of potential difference is-----
a. Ohm b. volt c. Newton d. watt
2. If the effective resistance is to be decreased, then the number of resistors should be connected in.
a. Series b. parallel c. mixed arrangement d. none of the above
3. If the resistors of $10\ \Omega$ and 15Ω are connected , if the potential difference is kept constant and the resistance of the circuit is made three times...
a. 25 b.6 c. $1/6$ d. 150
- 4) According to ohms law, which of the following statements is false...?
a. if voltage increases then current increases.
b. if current increases then resistance increases then resistance increases.
c. V-I graph is linear.
d. $V=IR$
- 5) What will be the change in the current, if the potential difference is kept constant and The resistance of the circuit is made three times?
a. It will remain unchanged, b. it will become three times,
c. it will become one-third. d. it will become six times.
- 6) Six resistance of $\frac{1}{2}\ \Omega$ each are connected in a series combination. What will be the Effective resistance in the circuit?
a. $1/64\Omega$ b. 3Ω c. 2Ω d. 64Ω
- 7)is used to measure the electric current in the circuit.
a. voltmeter b. ammeter c. Resistance d. all above
- 8) Those substance which have extremely high resistance are called
a. insulators b. Conductors c. Semiconductors, d. Superconductors.
- 9) Resistivity of a wire of length L is β . Yash broke this wire into two equal pieces of length $L/2$, the resistivity of each piece will be..
a. β b. 2β c. $\beta/2$ d. $\beta/4$
- 10) if three resistors, having values 2 ohm , 3ohm, and 4ohm, are connected in series then effective resistance in a circuit will be
a. 9 b. 6 c.1 d.5

Answer:

| | | | | | | | | | |
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Chapter-4. Measurement of Matter

- Proton and neutrons are together called
a. Molecule b. nucleus c. both a and b d. none of these
- The mass of one nitrogen atom is ----- times that of a hydrogen atom.
a. 15 b. 18 c. 14 d. 16
- The molecular mass of water is ----- u.
a.15 b. 18 c. 14 d. 16
- The number of valence electrons in aluminum is -----
a.2 b. 4 c. 6 d. 3
- When a radical is a group of atoms carrying charge, it is called..... radical.
a. Composite b. Basic c. acidic d. none of these
- Proportion by weight of hydrogen and oxygen in water is-----
a.2:1 b. 8:1 c. 1:8 d. 1:2
- The chemical symbol of cadmium is-----
a.Cd b. C c. Ca d. Cu
- The electron configuration of sodium (Na) is -----
a.2,8,1 b. 2,8,2 c. 2,8,3 d. 2,8,4
- In a chemical reaction, the total mass of the reactants is ----- the total mass of products formed.
a. Equal to b. double c. half d. thrice
- The solution of calcium chloride is
a. Yellow b. blue c. green d. Colorless
- The products formed when a solution of calcium chloride reacts with a solution of sodium sulphate are.....
a. Calcium sulphate and water. b. calcium sulphate and sodium.
c. calcium sulphate and sodium chloride. d. calcium and sodium chloride.
- A solution of sodium sulphate is added to a solution of calcium chloride. Which of the following observations is correct?
a. Blue coloured crystals are formed. b. The colour of the solution becomes brown.
c. A white precipitate is formed. d. The solution forms a separate layer.
- What is the colour of the precipitate formed when a solution of calcium chloride is treated with a solution of sodium sulphate ?
a. Green b. White c. Blue d. Black

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14. When CaCl_2 solution reacts with Na_2SO_4 Solution, CaSO_4 andare formed.
a. Cl_2 b. SO_2 c. Na_2O d. NaCl
15. What are the products formed when silver nitrate solution is added to copper chloride solution?
a. $\text{Cu}(\text{NO}_3)_2 + \text{Cl}_2$ b. $\text{Cu}(\text{NO}_3)_2 + \text{AgCl}$
c. $\text{CuO} + \text{AgCl}$ d. $\text{Cu}(\text{OH})_2 + \text{NO}_2 + \text{AgCl}$

Answer:

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Chapter-5. Acid Bases and Salt

- What is the color of the universal indicator solution in a neutral solution?
a. Red b. Blue c. Green d. yellow
- Identify an acidic substance from among the following.
a. NaOH b. CaO c. H_2CO_3 d. KOH
- Oxide of non-metal reacts with a base to produce.....
a. Salt and hydrogen b. hydrogen and oxygen
c. Salt and water d. salt and oxygen
- $(\text{NH}_4)_2\text{SO}_4$ is
a. a neutral salt b. an acidic salt c. a basic salt d. an alkali
- When HCl solution is added to a conical flask containing a solution of NaOH and Phenolphthalein indicator, the colour of the solution in the conical flask change From....
a. red to yellow b. colourless to pink
c. pink to yellow. d. pink to colourless
- When sodium carbonate is added to a test tube, which contain dilute sulphuric acid, a colorless gas is evolved. This gas is.....
a. CO_2 and it burns with a pop sound. b. CO_2 and it turns limewater milky.
c. H_2 and it turns limewater milky. d. Cl_2 and it has a pungent smell.
- A drop of acetic acid was added on a strip of pH paper. The colour produced on the Paper will be
a. orange b. green c. violet d. blue

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8. When a few drops of universal indicator added a sample solution and observe that colour changes to red .the sample will be.....
a. pH=2 b. pH >8 c. pH=7 d.pH>5
9. Which of the following is a non-electrolyte?
a. dilute sulphuric acid. b. Sodium hydroxide solution.
c. Sodium chloride solution. d. Glucose solution.
10. When a few drops of lemon juice on a strip of pH paper. The colour produced on the Paper will be
a. red b. yellow c. green d. violet
11. Complete the analogy: Ammonium nitrate::: Sodium sulphate : Neutral Salt
a. Acidic salt b. Basic salt c. Neutral d. Common Salt

Answer:

| | | | | | | | | | |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
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Chapter-6.Classification of plants

1. The number of petals in Hibiscus rosasinesis is
a. Four b. five c. three d. ten
2. leaves of which of the following show parallel venation?
a. chilly b. Mango c. Tuberose d. Hibiscus
3. In Moss, spores are produced...
a. fern b. on leaflet c. In cones d. in capsule
- 4.....is a saprophytic organism growing on dead and decaying organic matter.
a. Fern b. Catharanthus c. Mushroom d. spirogyra
5. Thred like spiral chloroplast is found in...
a. Riccia b. Spirogyra c. Chara d. Ulva
6. Which of the following seed cannot be divided into two equal halves?
a. Moong b. Pea c. Maize d. Mango
7. In fern, leaflets show presence of
a. Sori b. rhizoids c. pyrenoids d. stalk and capsule
8. Which of the following is present in both plant cells as well as in animal cell?
a. Cell wall b. Plastids c. Nucleus d. large vacuole

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9. Cycas belong to division.....
a. Gymnospermic b. angiospermic c. Bryophyta d. Thallophyta
10. Spirally arranged, green, thread like chloroplasts are found in
a. Ulva b. Riccia c. Spirogyra d. all above
11. Which among the following CANNOT be observed in Spirogyra?
a. Pyrenoid b. Nucleus c. Sori d. Cell wall
12. Male and female cones are present in ...
a. Funaria b. Pinus c. Fungi d. Catharanthus
13. Which of the following is false about Nephrolepis?
a. it possesses rhizome b. it reproduces only by sexual reproduction.
c. it has pinnately compound leaves d. it is used as an ornamental plant.
14. find Odd one out:
a. Onion b. Cycas c. Picea d. Thuja

Answer:

| | | | | | | | | | |
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Chapter-7. Energy Flow in an Ecosystem

1. Primary consumers are:
a. Herbivores b. carnivores' c. autotrophs d. mixed consumers
2. Number of tertiary consumers is....
a. more than herbivores b. less than other carnivores
c. more than primary producers d. equal to herbivores
3. Which of the following animals in a food chain would contain maximum kcal of Energy?
a. Humans b. phytoplanktons c. Fishes d. Zooplanktons
4. Identify the primary consumer among the following.
a. Tiger b. Frog c. Squirrel d. Eagle
5. Birds hovering over an aquatic ecosystem belong to which category?
a. Herbivores b. Producers c. Primary consumers d. Apex consumers

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6. Carbon cycle is most effective in...
a. tropical regions b. temperate regions c. equatorial regions d. Polar regions
7. Nitrogen forms% portion of the atmosphere.
a. 72 b. 78 c.28 d.69
8. Fungi and other micro-organisms decompose dead bodies of animals; hence they are called as
a. Decomposers b. Consumers c. Nitrogen bacteria d. all above
9. The cyclic flow of nutrients within an ecosystem is called the...
a. nitrogen cycle b. carbon cycle c. bio-geo-chemical cycle d. water cycle
10. In energy pyramid, the initial quantity of energyfrom the lowest level to the Highest level
a. increases b. decreases c. Same d. A and B
11. Oxygen is released during which of the following processes?
a. Corrosion b. Ammonification c. Photosynthesis d. Respiration
12. Which of the following is an apex consumer in the aquatic ecosystem?
a. Fishes b. Zooplanktons c. Humans d. Phytoplankton's
13. All producers in the ecosystem are ...
a. Carnivores b. Omnivores c. Autotrophs d. Heterotrophs

Answer:

| | | | | | | | | | |
|------|------|------|-----|-----|-----|-----|-----|-----|------|
| 1=a | 2=b | 3=b | 4=c | 5=d | 6=b | 7=b | 8=a | 9=c | 10=b |
| 11=c | 12=c | 13=c | | | | | | | |

Chapter-8. Useful and Harmful Microbes

1. Rhizobia are.....
a. rod-shaped bacilli
b. rectangular shaped anaerobic bacteria
c. fungus used for production of antibiotic
d. used for absorption of toxins produced during production of palm oil.
2. Lactic acid produced during formation of yoghurt is responsible for...
a. sweet taste of yoghurt b. abundant growth of pathogens
c. coagulation of milk d. indigestion and abdominal discomfort.

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3. Fermentation of molasses results in discomfort ofThat is mixed with fules.
a. oil b. nitrites c. ethanol d. diesel
4. Which of the following is an application of lactobacilli?
a. Bioremediation b. Probiotic
c. Antibiotic d. Inoculation of leguminous plants
5. Sometimes yoghurt froths due to....
a. production of lactic acid b. release of gases due to over formation
c. action of active dry yeast d. production of acetic acid
6. Leguminous plants can produce more proteins due to.....
a. Rhizobium b. Penicillium c.Lactobacilli d. Mycotoxins
7. Which of the following microbes forms a symbiotic association with groundnut plant?
a. Lactobacilli b. Rhizobium c. Clostridia d. yarrowia
8. Lactobacilli are
a. bottle-shaped b. rod-shaped c. spherical d. spiral-shaped
9. Which organism helps in making dough rise and bread spongy?
a. Lactobacilli b. Rhizobia c. Clostridia d. Yeast
10. find odd one out: AIDS, Hepatitis , Dengue, Malaria
a. AIDS b. Hepatitis c. Dengue d. Malaria
11. Lactobacilli bacteria convert lactose in milk to from lactic acid by the process of.....
a. Respiration b. Fermentation c. Evaporation d. Decantation
12. Oil spills in oceans are cleaned with the help ofBacteria.
a. Heterotrophic b. Autotrophic c. unicellular d. Multicellular

Answer:

| | | | | | | | | | |
|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| 1=a | 2=c | 3=c | 4=b | 5=b | 6=a | 7=b | 8=b | 9=d | 10=d |
| 11=b | 12=a | | | | | | | | |

Chapter-9.Environmental Management

- 1.....is dry solid waste.
a. Plant parts b. plastic c. fruits d. Spoiled food
2. The 3 R mantra which one must follow to help in waste management is...
a. Review, Reduce, Reuse b. Reduce, Reuse, Recycle
c. Recognize, Recover, and Recreate d. Research, Redesign, Regulate

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3. The acronym ABC used during first aid procedures stand for ...
a. Airway, Breathing, Cardiac b. Assessment, Breathing, Circulation
c. Airway, Body check, Cardiac d. Airway, Breathing, Circulation
4.is useful for transporting injured patients who need support below their waist.
a. Two-hand chair method b. pulling method
c. Human crutch method d. Four-hand chair method
- 5.....waste does not decompose easily and requires more time to decompose.
a. Biodegradable b. Agricultural c. Ecofriendly d. Non-biodegradable
6. Useful articles can be made from wastes bysolid wastes.
a. incinerating b. burning c. recycling d. land-filling
7. Which of the following will take the shortest to undergo natural degradation?
a. woolen socks b. Cloth bags c. plastic bags d. wood
8. Of the biotic factors that affect biodiversity by far most important is.....
a. climate b. Weather c. Humidity d. Temperature

Answer:

| | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|--|--|
| 1=b | 2=b | 3=d | 4=d | 5=d | 6=c | 7=b | 8=a | | |
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Chapter-10.Information Communication technology

- 1.....is the most important device for information communication.
a. Compute b. Mobile c. Television set d. Radio
2. Thecomputer is a type of first generation computer.
a. Macintosh b. ENIAC c. IBM 1620 d. Windows
3. The information stored incan only be read.
a. DOS b.RAM c.ROM d. ALU
4. The first Indian supercomputer made with the help of C-DAC was.....
a. ENIAC b. Param c. IBM 1401 d. Macintosh
5. Which of the following parts used in the construction of forst generation computers...
a. integrated circuits b. Transistors C. Valves d. Microprocessors
6. Which of the following is most essential for the functioning of computers?
a. Scanner b. External memory c. Mouse d. Operating System

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7. In parking spaces of malls, mirrors placed are oftype.
a. plane b. convex c. concave d. any of the above
8. To focus sunrays on the piece of paper.....type of mirror is used.
a. plane b. convex c. concave d. any of the above
- 9.....mirror always forms diminished and erect image of the object.
a. Concave b. convex c. Double convex d. Concave -convex
10. The number of image formed when angle between two plane mirrors is 40 is
a. 6 b. 5 c. 8 d. 9
11. for concave mirror, when object is placed between centre of curvature and principle Focus of mirror image distance is always
- a. Infinite b. zero c. positive d. negative
12. An incident ray passing through centre of curvature of spherical mirror will
- a. trace the same path but in opposite direction as a reflected ray
 b. emerge parallel c. pass through the pole
 d. pass through principle focus on other side of mirror

Answer:

| | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|------|
| 1=a | 2=b | 3=a | 4=b | 5=a | 6=c | 7=b | 8=c | 9=b | 10=c |
| 11=d | 12=a | | | | | | | | |

Chapter-12.Study Of Sound

1. In longitudinal wave, particles oscillate in a directionTo the direction of Propagation of waves.....
a. Parallel b. series c. opposite d. Combination
2. Pitch of a sound depends uponof wave
a. Frequency b. Amplitude c. Pressure d. Velocity
3. Speed of soundwith increase in temperature.
a. Decreases b. Increases c. same d. zero
4. For a fix temperature, the velocity of sound does not depend on the
- a. Pressure of the gas b. Force c. Temperature d. water vapour
5. Sound of frequency less than 20 Hz is calledsound
a. Infrared sound b. Ultrasounds c. Double sound d. Echo sound
6. Children under the age ofCan hear up to 25000Hz
a. Five b. Two c. Seven d. None of these

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7.are used to establish ship to ship communication.
a. Infrared sound b. Ultrasounds c. Double sound d. Echo sound
8. Repetition of the original because of reflection of sound is called
a. Infrared sound b. Ultrasounds c. Double sound d. Echo sound
9. SONAR consists of aand a detector.
a. Transmitter b. Converter c. voltmeter d. Ammeter
10. Inwaves, particles oscillate up and down about their mean position.
a. Longitudinal b. Mechanical c. electromagnetic d. transverse
11. During the propagation of sound wave through medium, there is change in density
And... ..Of the medium.
a. Pressure b. texture c. state d. volume
12. Ultrasonic sound has frequency
a. below 20Hz b. above 10000Hz c. above 20000Hz d. below 20000Hz
13. Human ear cannot hear sound of frequency less than.....
a. 10Hz b. 20Hz c. 15Hz d. 25Hz
14. Bates can produceSound.
a. infrasonic b. loud c. ultrasonic d. low quality
15. To hear an echo, the total distance covered by sound from the point of generation to
The reflecting surface and back should be at least.
a. 36m b. 17.2m c. 34.4m d.19m
16. The amplitude of sound wave determines it's.....
a. Speed b. frequency c. strength d. nature
17. Barelli and Viviani were the first to calculate.
a. speed and sound b. wavelength of sound
c. pitch of sound d. amplitude of sound
18. The sensation of sound persists in our brain for about.....
a. 0.4 second b. 0.2 second c. 0.01second d. **0.1 second**

Answer:

| | | | | | | | | | |
|------|------|------|------|------|------|------|------|-----|------|
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Chapter-13. carbon an important Elements

1. A carbon atom forms abond with other atoms.
a. covalent b. co-ordinate c. ionic d. multiple
2. All the carbon bonds in a saturated hydrocarbonElectron.
a. share b. gain b. loss d. zero
- 3.....is the essential element in all the organic compounds.
a. Hydrogen b. Oxygen c. Nitrogen d. Carbon
- 4.....from of coal contains less than 60% of carbon.
a. Peat b. lignite c. Anthracite d. Bituminous
5. Methane is obtained from natural gas by
- a. stem distillation b. vacuum distillation
c. fractional distillation d. simple distillation
6. The lead used in pencil is made by mixing
- a. graphite with glass b. graphite with clay
c. diamond with clay d. coal with coke
7. The first example of fullerene is.....
a. C₆₀ b.C₇₀ c. C₈₂ d. C₈₆
8. When a mixture of hydrogen and carbon monoxide gases are heated at 300 c in the Presence ofCatalyst, methane gas is produced.
a. Iron b. copper c. coke d. nickel
9. When carbon dioxide dissolves in water.....is formed.
a. hydrogen b. carbonic acid c. acetic acid d. oxygen
10. When limestone was treated with dilute HCl a gas was produced. Which of the Following is correct regarding the gas?
a. It is brown in color. b. it is basic in nature.
c. it is odorless. d. it supports combustion.
11. On adding universal indicator to a gas jar filled with CO₂ the color of the solution Change to
a. Blue b. green c. violet d. yellow
12. Dilute hydrochloric acid is added to pieces of Shahabad tiles taken in a round bottom Flask. It is observed that...
a. The solution turns black b. a brisk effervescence occurs
c. the solution turns milky d. a loud sound is produced

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13. Nikita tests carbon dioxide gas moist litmus paper, she observes that.....
- a. red litmus turns blue
 - b. blue litmus turns red
 - c. blue litmus paper remains as it is
 - d. red litmus paper turns green
14. Carbon dioxide gas.....
- a. supports combustion
 - b. is neutral in nature
 - c. has sweet smell
 - d. is colorless

Answer:

| | | | | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|-------------|
| 1=a | 2=a | 3=d | 4=a | 5=c | 6=b | 7=a | 8=d | 9=b | 10=c |
| 11=d | 12=b | 13=b | 14=d | | | | | | |

Chapter-14.Substance In Common Use

1. The number of molecules of water of crystallization in washing soda is.....
- a. 1
 - b. 4
 - c. 2
 - d. 3
2. The chemical name of baking soda is
- a. Sodium bicarbonate
 - b. sodium carbonate
 - c. sodium sulphate
 - d. sodium hydroxide
- 3.....is used in treatment of hyperthyroidism.
- a. Iodine-125
 - b. iodine-123
 - c. carbon-14
 - d. carbon-12
4. The ionization poweris the highest.
- a. alpha rays
 - b. beta rays
 - c. gamma rays
 - d. X-rays
5. Bleaching powder is obtained by the reaction of chlorine gas with
- a. limestone
 - b. carbon
 - c. slaked lime
 - d. calcium oxide
6. Ernest Rutherford showed that the nitrogen atom could be split by bombarding it with
- a. alpha rays
 - b. beta rays
 - c. gamma rays
 - d. X-rays
7. Antiperspirant deo contains aboutof aluminum chlorohydrate.
- a.15%
 - b.25%
 - c.40%
 - d.60%
8. When a piece of stained cloth is added to a beaker containingsolution, the stains Will disappear.
- a. Bleaching powder
 - b. sodium hydroxide
 - c. acetic acid
 - d. sodium chloride
9. Sonal adds some activated charcoal powder in a beaker containing aqueous solution of Blue ink. She warms the solution and filters the content using a filter paper. She will Observe that the filtrate collection in a clean beaker is

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- a. Blue b. black c. yellow d. colorless
10. A student tests aqueous solution of table salt using pH paper. The colour of the strip Change to
- a. Violet b. red c. yellow d. green
11. Lemon juice has a pH of about
- a. 2 b. 4 c. 7 d. 9
12. Varun tests the pH of a solution using universal indicator and finds that the solution Turns violet the nature of the solution is.....
- a. Weakly acidic b. strongly acidic c. strongly basic d. weakly basic
13. Which of the following is incorrect pH value..
- a. table salt = 7 b. Milk= 6.5 c. Baking soda= 8.5 d. Toothpaste= 6.5
14. Which of the following is acidic?
- a. Toothpaste b. Soap c. Vinegar d. Baking Soda
15. The bleaching action of bleaching powder is due to release of
- a. carbon dioxide gas b. oxygen gas c. hydrogen gas d. chlorine gas

Answer:

| | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|-------------|
| 1=a | 2=a | 3=b | 4=a | 5=c | 6=a | 7=a | 8=a | 9=d | 10=d |
| 11=a | 12=c | 13=b | 14=c | 15=d | | | | | |

Chapter-15.Life Processes In Living Organisms

- 1.....cells control the opening and closing of stomata.
- a. Guard b. root cells c. xylem d. vacuole
2. due to the effect of root pressure, water and minerals reachof the roots
- a. phloem b. root cells c. xylem d. vacuole
- 3.....cells are present around the stomata.
- a. Guard b. root cells c. xylem d. vacuole
4. Gurad cells of dicot stomata are
- a. dump-bell shaped b. rod shaped
- c. kidney shaped d. oval shape
5. Dumb-bell shaped stomata can be observed inleaf.
- a. sunflower b. Maize c. Rose d. Hibiscus
6. Which of the following phenomenon is observed in shoots?
- a. Negative phototropism b. positive Gravitropism
- b. Neutral phototropism d. Positive phototropism

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7. The shoot of a plant shows growth towards the light due to the plant hormone
a. Abscisic acid b. Auxin c. Cytokinin d. Gibberellin
8. Choose correct statement of the following:
a. Guard cells help in translocation of food.
b. Guard cells are kidney shaped in monocot stomata.
c. Guard cells are dumb-bell shaped in dicot stomata.
d. Guard cells are control the opening and closing of stomata.
9. which of the following hormone is synthesized when light falls on the plant?
a. Plastocyanin b. Auxin c. Cyemotropic d. Abscisic acid
10. Which type of the movement is shown by plants in response to specific chemicals?
a. Autotrophic b. Gravitropic c. Chemotropic d. Phototropic
11. Nerves originating from the spinal cord are called.....nerves.
a. Cranial b. Spinal c. Autonomic d. Central
- 12.....maintain the body balance.
a. Cerebrum b. cerebellum c. Nephron d. Nerve cells
13. Odd one out:
a. Breathing b. Intelligence c. Sneezing d. Coughing

Answer:

| | | | | | | | | | |
|------|------|------|-----|-----|-----|-----|-----|-----|------|
| 1=a | 2=c | 3=a | 4=c | 5=b | 6=d | 7=b | 8=d | 9=b | 10=c |
| 11=b | 12=b | 13=b | | | | | | | |

Chapter-16.Heredity and Variation

1. Chromosomes are mainly made up of
a. RNA b. DNA c. Nucleus d. cell wall
2. Organisms produced byshow minor variations.
a. asexual reproduction b. sexual reproductions
c. DNA d. Nucleotides
3. Harmful effect of smoking is due topresent in tobacco.
a. Nicotine b. carbon c. Hydrogen d. Oxygen
4. The Centro mere inchromosome is at the midpoint, so that arms are equal.
a. metacentric b. Sub-metacentric c. acrocentric d. telocentric
5. Which of the following pyrimidine is absent in RNA?
a. Adenine b, Cytosine c. Uracil d. Thymine

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6. Identify the recessive character of pea plant among the following.
 - a. round shape of seeds
 - b. White colour of lowers
 - c. green colour of pods
 - d. Inflated shape of pods
7. Which among the following is a mitochondrial disorder?
 - a. Down syndrome
 - b. Leber hereditary Optic neuropathy
 - c. Cleft lip
 - d. Spina bifida
8. Which of the following is used for ripening banana artificially?
 - a. calcium nitrate
 - b. calcium chloride
 - c. calcium carbide
 - d. Abscisic acid
9. Which of the technique is used for the identification of criminals?
 - a. RNA fingerprinting
 - b. Protein fingerprinting
 - c. DNA fingerprinting
 - d. mRNA fingerprinting
10. Which of the following test is done for diagnosis of sickle cell anemia?
 - a. Positron emission tomography
 - b. WIDAL test and electrophoresis
 - c. Electrocardiography
 - d. Solubility test and electrophoresis
11. Which of the following genotype represents the pea plants with rounded yellow Seeds
 - a. rrYY
 - b. RRyy
 - c. rryy
 - d. RrYy
12. How many genotypes and phenotypes are seen in F₂ generation of a dihybrid cross?
 - a. 9 genotypes and 16 phenotypes
 - b. 4genotypes and 9 phenotypes
 - c. 9 genotypes and 4 phenotypes
 - d. 16 genotypes and 9 phenotypes
13. Cytosine always pairs with
 - a. adenine
 - b. guanine
 - c. thymine
 - d. uracil
14. Which of the following is a recessive character in human beings?
 - a. Presence of hairs on arms
 - b. free earlobe
 - c. Brown and straight hairs
 - d. rolling tongue
- 15.....is the chromosome number in potato.
 - a. 46
 - b. 04
 - c. 26
 - d. 48
16. A person suffering from sickle cell anaemia should take a tablet of
 - a. nitric acid
 - b. folic acid
 - c. carbonic acid
 - d. phosphoric acid

Answer:

| | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|-------------|
| 1=b | 2=a | 3=a | 4=a | 5=d | 6=b | 7=b | 8=c | 9=c | 10=d |
| 11=d | 12=c | 13=b | 14=c | 15=d | 16=b | | | | |

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Answers:

Chapter-1. Laws of motion

| | | | | | | | | | |
|------|------|------|------|------|-----|-----|-----|-----|------|
| 1=b | 2=b | 3=a | 4=b | 5=a | 6=a | 7=a | 8=d | 9=b | 10=a |
| 11=b | 12=a | 13=b | 14=a | 15=d | | | | | |

Chapter-2. Work and Energy

| | | | | | | | | | |
|------|------|------|------|------|------|------|------|-----|------|
| 1=b | 2=a | 3=a | 4=a | 5=b | 6=c | 7=b | 8=a | 9=c | 10=b |
| 11=b | 12=d | 13=a | 14=d | 15=c | 16=c | 17=b | 18=c | | |

Chapter-3. Current Electricity

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1=b | 2=b | 3=b | 4=b | 5=c | 6=b | 7=b | 8=a | 9=a | 10=a |
| | | | | | | | | | |

Chapter-4. Measurement of Matter

| | | | | | | | | | |
|------|------|------|------|------|-----|-----|-----|-----|------|
| 1=b | 2=c | 3=b | 4=d | 5=a | 6=c | 7=a | 8=a | 9=a | 10=d |
| 11=c | 12=c | 13=d | 14=d | 15=b | | | | | |

Chapter-5. Acid Bases and Salt

| | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1=c | 2=b | 3=a | 4=a | 5=d | 6=b | 7=a | 8=a | 9=d | 10=a |
| 11=a | | | | | | | | | |

Chapter-6. Classification of plants

| | | | | | | | | | |
|------|------|------|------|-----|-----|-----|-----|-----|------|
| 1=b | 2=c | 3=d | 4=c | 5=b | 6=c | 7=a | 8=c | 9=a | 10=c |
| 11=c | 12=b | 13=b | 14=a | | | | | | |

Chapter-7. Energy Flow in an Ecosystem

| | | | | | | | | | |
|------|------|------|-----|-----|-----|-----|-----|-----|------|
| 1=a | 2=b | 3=b | 4=c | 5=d | 6=b | 7=b | 8=a | 9=c | 10=b |
| 11=c | 12=c | 13=c | | | | | | | |

Chapter-8. Useful and Harmful Microbes

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| | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|------|
| 1=a | 2=c | 3=c | 4=b | 5=b | 6=a | 7=b | 8=b | 9=d | 10=d |
| 11=b | 12=a | | | | | | | | |

Chapter-9.Environmental Management

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| 1=b | 2=b | 3=d | 4=d | 5=d | 6=c | 7=b | 8=a | | |
| | | | | | | | | | |

Chapter-10.Information Communication technology

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 1=a | 2=b | 3=c | 4=b | 5=c | 6=d | 7=b | 8=d | 9=a | |
| | | | | | | | | | |

Chapter-11.Reflection of light

| | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|------|
| 1=a | 2=b | 3=a | 4=b | 5=a | 6=c | 7=b | 8=c | 9=b | 10=c |
| 11=d | 12=a | | | | | | | | |

Chapter-12.Study Of Sound

| | | | | | | | | | |
|------|------|------|------|------|------|------|------|-----|------|
| 1=a | 2=a | 3=b | 4=a | 5=a | 6=a | 7=b | 8=d | 9=a | 10=d |
| 11=a | 12=c | 13=b | 14=c | 15=c | 16=c | 17=a | 18=d | | |

Chapter-13.carbon an important Elements

| | | | | | | | | | |
|------|------|------|------|-----|-----|-----|-----|-----|------|
| 1=a | 2=a | 3=d | 4=a | 5=c | 6=b | 7=a | 8=d | 9=b | 10=c |
| 11=d | 12=b | 13=b | 14=d | | | | | | |

Chapter-14.Substance In Common Use

| | | | | | | | | | |
|------|------|------|------|------|-----|-----|-----|-----|------|
| 1=a | 2=a | 3=b | 4=a | 5=c | 6=a | 7=a | 8=a | 9=d | 10=d |
| 11=a | 12=c | 13=b | 14=c | 15=d | | | | | |

Chapter-15.Life Processes In Living Organisms

| | | | | | | | | | |
|------|------|------|-----|-----|-----|-----|-----|-----|------|
| 1=a | 2=c | 3=a | 4=c | 5=b | 6=d | 7=b | 8=d | 9=b | 10=c |
| 11=b | 12=b | 13=b | | | | | | | |

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Chapter-16.Hereditry and Variation

| | | | | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|-------------|
| 1=b | 2=a | 3=a | 4=a | 5=d | 6=b | 7=b | 8=c | 9=c | 10=d |
| 11=d | 12=c | 13=b | 14=c | 15=d | 16=b | | | | |