DAV Public School, Hudco ,Bhilai Class x science

Question bank

- 1. Name two salts that are used in black and white photography.
- 2. List two observation that are noticed when a iron nail is put inside copper sulphate solution.
- 3. Write a balance equation for a chemical equation that can be characterised as precipitation.
- 4. Name the law which is kept in mind while balancing a chemical equation.
- 5. Why do we store silver chloride in dark coloured bottles.
- 6. What is meant by thermal decomposition reaction? Explain with an example.
- 7. Why does copper not evolve hydrogen on reacting with dilute sulphuric acid.
- 8. What happens when carbon dioxide gas is bubbled through lime water.
 - a) In small amount
 - b) In excess
- 9. Which out of distilled water, tap water and sea water is the best conductor of electricity
- 10. A few drops of sulphuric acid are added to water before electrolysis. Why?
- 11. What are antacids? name two compounds which are used as antacids
- 12. What is bleaching powder chemically called
- 13. Why are some salt called hydrated salt
- 14. What are all factory indicators
- 15. What is tooth enamel chemically?
- 16. Write the name given to the basics that are highly soluble. Give an example.
- 17. Define pH scale. draw a figure showing variation of pH with change in concentration of hydrogen and hydroxide ions .
- 18. What is an action of litmus on
 - a) Dry ammonia gas
 - b) Solution of ammonia gas in water
- 19. During the preparation of hydrogen chloride gas on a humid day ,the gas is usually passed through the guard tube containing anhydrous calcium chloride . the role of calcium chloride taken in a guard tube is to
 - a) Absorb the evolve gas
 - b) Moisten the gas
 - c) Absorb moisture from the gas
 - d) Absorb chloride ion from the evolved gas
- 20. Sodium carbonate is a basic salt because it is a salt of
 - a) Strong acid and strong base
 - b) Weak acid and weak base
 - c) Strong acid and weak base
 - d) Weak acid and strong base
- 21. Which of the following is acidic in nature
 - a) Lime juice
 - b) Human blood
 - c) Lime water
 - d) Antacid
- 22. Name a non metal which reacts with very dilute nitric acid to evolve hydrogen
- 23. Why does not stainless steel get rusted easily?
- 24. Why can we use gold and platinum in jewellery?
- 25. Give chemical name of two salts belonging to sodium family
- 26. Why do we apply paint on iron grills?
- 27. Why do ionic compound conduct electricity only in the molten state and not in solid state.
- 28. Name the following
 - a) A metal which is preserved in kerosene
 - b) A lustrous coloured non metal
 - c) A metal which can melt when kept on palm
 - d) A metal which is poor conductor of heat

29. During electrolytic refining of copper it gets
a) Deposited on cathode
b) Deposited on anode
c) Deposited on cathode as well as anode
d) Remains in the solution
30. Which among the following alloys contain mercury as one of its constituent
a) Stainless steel
b) German silver
c) Solder
d) Zinc amalgam
31. Write the next homolog of the following
a) C_3H_6
b) C ₅ H ₈
32. Draw the structure of simplest ketone
33. Write the structural formula of hexanal
34. Why carbon forms only covalent bonds
35. What is meant by "the hydrogenation of vegetable oil"?
36. Write one advantage and disadvantage of using ethanol?
37. Chlorine reacts with saturated hydro carbons at room temperature in the
a) Absence of sunlight
b) Presence of sunlight
c) Presence of water
d) Presence of hydrochloride acid
38. Vinegar is a solution of
a) 30%-40% acetic acid in alcohol
b) 5%-8% acetic acid in alcohol
c) 5%-8% acetic acid in water
d) 15%-20% acetic acid in water
39. Ethanol reacts with sodium and forms two products .these are
a) Sodium ethanoate and hydrogen
b) Sodium ethanoate and oxygen
c) Sodium ethoxide and hydrogen
d) Sodium ethoxide and oxygen
40. Write the formula and electron dot structure of carbon tetrachloride.
41. Out of the elements H [1], Be[4], Na[11], Mg[12] – write the pair of element having smilar chemical property
42. The atomic number of element is 19 write the formula of the oxide of the element.
43. Upto which element, the law of octave was found to be applicable
a) Oxygen
b) Calcium
c) Cobalt
d) Potassium
44. The elements A,B,C,D and E have atomic numbers 9,11,17,12 and 13 respectively . which pair of
element belong to the same group?
a) A and B
b) B and D
c) A and C
d) D and E
45. Which of the following elements does not lose an electron easily?
a) Na
b) F
c) Mg
d) Al
46. Which of the following gives the correct increasing order of the atomic radii of O,F,N?
a) O,F,N

- b) N,F,O
- c) O,N,F
- d) F,O,N
- 47. Which among the following elements has the largest atomic radius?
 - a) Na
 - b) Mg
 - c) K
 - d) Ca
- 48. On moving from left to right in a periodic table the size of the atom
 - a) Increase
 - b) Decreases
 - c) Does not change
 - d) First decrease the increases
- 49. Which of the following does not increase while moving down the group
 - a) Atomic radius
 - b) Metallic character
 - c) Valance
 - d) Number of shells in an element
- 50. Which of the element will form an acidic oxide?
 - a) An element with atomic number 7
 - b) An element with atomic number 3
 - c) An element with atomic number 12
 - d) An element with atomic number 19

Lion's DAV **IMPORTANT QUESTIONS SESSION 2019-2020** CLASS- X

SUBJECT- SCIENCE

MARKS:50

- Q1. Where is DNA found in a cell?
- Q2. Name the tissue present in the brain.
- Q3. Name the process by which bio-gas is prepared.
- Q4. Give one word for bio-diversity hot spots.
- Q5. Which tissue protects the entire body?
- Q6. What is the formula of baking soda?
- Q7. Write one source of oxalic acid.
- Q8. What type of bonds are present in water molecule?
- Q9. Write the electron dot structure of NaCl.
- Q10. Find the atomic number of the element whose electronic configuration is 2,8,7.
- Q11.What is the S.I. unit of electric potential?
- Q12.On which part image are formed in human eye.
 - a) cornea
- b) iris c) pupil
- d) retina
- Q13. Ganga cleanliness scheme was started in the year.
 - a) 1985
- b) 1970
- c) 2000
- d) 1995
- Q14. What were the criteria used by Mendeleev in creating his periodic table?

Q15. A spherical mirror and a thin spherical lens have each a focal length of mirror and lens are likely to be.

-15cm. the

a) both concave

- b) both convex
 - c) the mirror is concave and the lens is convex

		d) the mi	rror is convex	, but the	lens is conca	ave	
	Q16. T	he most impo	rtant safety o	levice me	thod used fo	or pro	tecting
electrical applian	ces	from short circuiting or overloading is.					
			a) earthing		b)	use of	fstabilizers
			c) use of ele	ectric met	er d)	use of	f fuse.
			,		,		
O17. Fuel	used in thei	mal power pl	ants is.				
	water	b) uranium		iomass	d) -	fossil	fuels
•		mate source	•		٠,		
	water		n c)uranium	d) fos	sil fuels		
•		of this elemer	-	-	311 14613		
		b) lithium	•		d)sodiu	m	
•		ovalent bond	•		•	111	
	12	b) 11 c) 16			•		
•		•	•		its atom is:		
		cule having a				ia	
a)	nyarogen	b) oxygen	c) w	ater	d) ammon	Ia	
022 The		C		اد مال د			
		oxygen from a			15 1 11		
		b) corrosion	-		d) reduction		
		lowing can be	-	•	_	į ?	
•	Nacl	b) KCl	c) AgCl	d) CuO	Cl		
	cosystem co				_		
•		b) biot			-	ers	d)
producers	Q25. T	he 'chipko An		ciated wit			
		a) tigers	b) turtles		c) plants	d	l) tomatoes
Q2	26. Which of	the following	g is omnivores	5?			
	a) lion	b) co	W	c) rab	bit	d	l) man
Q2	27. Environn	nent day is ce	lebrated on				
	a) 28 ja	n b) 20	march	c) 25 r	าดง	d	l) 5 june
Q2	28. The majo	r programme	started to re	plenish th	ne damaged	fores	ts is called.
	a) hort	icultur b) tiss	sue culture	C	:) agriculture	غ	d)
silviculture		Q29 The com	nmercial unit	of energy	is:		
		a) wa	tt	b) wa	tt-hour	С)
kilowatt-hour d)	kilo-joule		Q30. The n	earest poi	int upto whi	ch the	e eye can see
an object clearly	=	strain		is called.			•
,	ŕ			a) nea	ır point	b) far point
c) vision p	oint	d) none of th	ese	-	Vhat is biolo		, .
magnification?		,		•		J	
_	hat is heatin	g effect of ele	ectric current	?			
•	e electric er	_					
		iple of electri	c motor?				
	•	•					
=	Q35 Amylase is first secreted by which gland? Q36 Name the rear view mirror used in vehicle?						
	Q37 Which Group of periodic table represent as noble gases?						
	Q38 Name the process by which unsaturated fats are changed to saturated fats.						
	· ·	ears white at		.c a.c criai	.500 10 3010	. accu	
-		to see nearby		distant o	hiect clearly	, ?	
		renewable re					netroleum
QTI WILL	טווכ וז נוופ	. CITC VV GDIC TO	Journey Hall	ai ui gus Ul	biodila wa	C 01	Petroleum

or coal?

Q42 What is meant by scattering of light?
Q43 Name a device that helps to maintain a potential difference across a conductor.

Q44 Name the pigment which is present in urine? Q45 Define electric power? Q46 What is frequency of AC in India? Q47 Write the chemical name of the coating that forms on silver and copper articles when these are left exposed to moist air. Q48 What type of reaction is represented by the digestion Q49 What is the PH of neutral solution? Q50 Give one example of a molecule containing a double covalent bond? Class: X **Question Bank 2019-20** SCIENCE

DAV PUBLIC SCHOOL, GEVRA PROJECT

BIOLOGY

Q.1- Which one of the following green house gases in a contributer of incomplete combustion of coal and

petroleum.

1) Oxide of nitrogen

2)Methane

3) Carbon monoxide

4)

of food in our body?

carbon dioxide

- Q.2 When is environment day is celebrated .?
- Q.3 Name of the medicines which is used for treating indigestion.
- Q.4 Which of the following is not a natural resources.
 - 1) Water 2) electricity 3)Coal 4) Petroleum
- Q.4 Name the enzyme. Which initiates the protein digestion infants.
- Q.5 What is the primary requirement for pancreatic enzymes to act.?
- Q.6 What are the biocatalysts. We enhance the rate of metabolic activities.
- Q.7 State the role and function of the following.

1)Blood 2)WBC

- Q.8 State the method used for growing rose plants.
- Q.9 List two function of ovary of female reproductive system.
- Q.10 The number of pairs of sex chromosome in the zygote of humans is

1)one 2)two 3)three

- 4) four
- Q.11 Name an endocrine gland that help in the process of digestion.
- Q.12 Which fossil fuel is mainly used in the thermal power station.
- Q.13 Name two tissues, which provide control and cordination in animals.
- Q.14 What is the fluid present in between the meanings.
- Q.15 What is the cause of variation in asexually reproducing organisms.

CHEMISTRY

- Q.1 Name the process by which unsaturated fats are changed to saturated fats.
- Q.2 Define catenation.
- Q.3 How does the valency of an element vary across the period?
- Q.4 Atomic number of an element is 16. Find its valency.
- Q.5 Write molecular formula of butane.
- Q.6What is reactivity series of metals?
- Q.7 Write electron dot structure of ethane?
- Q.8 Why is sodium kept in kerosene?
- Q.9 Show the formation of Na₂O and MgO by electron transfer method.
- Q.10 Why should magnesium ribbon be cleaned before burning?

Q.11 Balance the following reaction – $Na + H_2O \longrightarrow NaOH + H_2$ Q.12 What is displacement reaction? Give example. Q.13 Write the formula of Plastr of Paris. Q.14 Why do we use gold and silver to make jewellery? Q.15 Why do alkanes burn with blue flame? **PHYSICS** Q1 On which part images are formed in human eye? a) Cornea b) Iris c) Pupil d) Retina Q2 The device used for producing electric current is called a a) Generator b) Galvanometer c) Ammeter d) Motor Q3 A rectangular coil of copper wires is rotated in a magnetic field. The direction of the induced current changes once in each. a) Two revolutions b) One revolution c) Half revolution d) One-fourth revolution. Q4 In a Myopic eye, image of distant object is formed. a) In front of the retina b) On the retina c) Behind the retina d) None of these. Q5 A torch bulb is rated 2.5 V and 700mA. The power of bulb will be a) 1.75W b) 1.5W c) 2.5W d) 2.0W Q6 Element used for making solar cell is a) Carbon b) Phosphorus c) Gold d) Silicon Q7 When 3 ohm and 6 ohm resistors are connected in parallel with 2 ohm in series, the total resistance is a) 2 ohm b) 4 ohm c) 8 ohm d) 10 ohm Q8 Energy possessed by flowing water is a) Kinetic energy b) Potential energy c) Nuclear energy

Q9 The nearest point up to which a normal eye can see an object clearly without any strain is called

- a) Far point
- b) Near point

d) Heat energy

- c) Vision point
- d) None of these

Q10 Splitting of white light into seven colours is called

- a) Reflection
- b) Refraction
- c) Dispersion
- d) None of these.

Q11 Refractive index of glass with respect to air is 3/2, then refractive index of air with respect to glass

Will be

- a) 3/2
- b) 4/9
- c) 9/4
- d) 2/3

Q12 When the ciliary muscles are relaxed ,focal length of eye lens is

- a) Maximum
- b) Minimum
- c) Neither maximum nor minimum
- d) Equal to least distance of distinct vision.

Q13 At the time of short circuit, the current in the circuit

- a) Vary continuously
- b) Increases heavily
- c) Decreases heavily
- d) Remain same

Q14 The blue colour of water in deep sea is due to

- a) The presence of some plants found in water
- b) Reflection of sky in water
- c) Scattering of light
- d) Due to absorption of blue colour of light

Q15 Twinkling of stars is due to atmospheric

- a) Scattering of light by dust particles
- b) Total internal reflection by clouds
- c) Dispersion of light by water droplets
 - **d)** Refraction of light by different layers of varying refractive indices

DAV PS, Jamul OBJECTIVE QUESTIONS- CLASS X SUBJECT- SCIENCE

- Q1. Name the plant hormone commonly known as stress hormone.
 - (a) Auxin (b) thyroxine (c) Abscissic acid (d) Ethylene
- Q2. An element which form an acidic Oxide
- (a) Magnesium, (b) sulphur, (c) potassium (d) sodium
- Q3.Baking soda is

(a)brine solution, (b) sodium carbonate (c) sodium hydrogen carbonate (d) sodium chloride

- Q4. Which of the following has pH less than 7
 - (a) lime water, (b) lemon juice, (c) antacid, (d) human blood
- Q5.The second largest part of human brain is
- Q6. Oily and fatty food become rancid because of of
 - (a) hydrogenation, (b) corrosion (c) reduction (d) oxidation
- Q7. The most common method of reproduction in filmentous algaea is
 - (a) spore formation, (b) fragmentation, (c) regeneration, (d) vegetative propagation
- Q8. Which of the following is a natural indicator?
 - (a) Litmus, (b) methyl orange, (c) phenolphthalein (d) all of these
- Q9.Match the following

- (a) Lipase secreted by small intestine (b) Succus entericus - pancreas (c) Pepsin - liver (d) Bile - digestion of protein Q10. The first organic compound prepared from an inorganic compound is? (a)urea (b) glucose (c) ethyl alcohol (d) acetic acid Q11. Homologous organs are (a) Organs with similar function and different structure (b) Organs with similar structure and different function (c) Organs with similar structure and function (d) None of these Q12.Xylem transport depends on (a) Turgor variation of guard cell and subsidiary cells (b) Turgor variation of mesophyll cells and xylem vessl (c) Turgor variation of stomatal pore (d) None of these Q13. What do you mean by coleoptiles? Q14. The longest cell in human body is (a) Liver cell (b) Nerve cell (c) Reproductive cell (d) Blood cell Q15. Number of spinal nerves in human is (a) 31 (b) 32 (c) 33 (d) 10 Q16.Assertion: all ores are minerals but all minerals are not ores. Reason: the minerals from which metals can be extracted profitably are ores. (a) Both assertion and reason are correct (b) Assertion is correct but reason is not the correct explanation of the assertion (c) Both assertion and reason are wrong (d) Assertion is incorrect but reason is correct Q17. Sodium reacts explosively even with cold water. Say whether the statement is true or false. Q18. Define reflex actions. Q19. Decomposition of ferrous sulphate is exothermic or endothermic? Q20. Name the respiratory organ of mosquito. Q21.Write the chemical formula of bleaching powder. Q22. The site for fertilization in humam are (a) Ovary
 - (b) Fallopian tube
 - (c) Vasdeferens
 - (d) Uterus
 - Q23. Regeneration is not possible in higher organism as
 - (a)they have highly differentiated tissues
 - (b)it is a function of special body cells
 - (c)both (a) and (b)
 - (d) none of these
- Q24. Which of the following does not increase while moving down the group of the periodic table
- (a)atomic radius
- (b)metallic character
- (c)valence electrons
- (e) Number of shells in an element

Q25.Modern periodic law was given by
(a) Bohr
(b) Mendeleev
(c) Lother Meyer
(d) Moseley
Q26.Name the book written by Charles Darwin
(a)Origin of species
(b)speciation
(c)Species origin
(d)genera plantarum
Q27.Aluminium articles and containers do not get corroded because
(a) Aluminium is least reactive
(b) Aluminium is passive to the attack of water ,acid etc
(c) A layer of aluminium oxide is formed its surface
(d) None of these
Q28.Amalgams are alloys which always contain a metal
(a)carbon
(b)iron
(c)mercury
(d)sodium
29. The solution of one of the following compound conduct electricity
(a)methane
(b)magnesium chloride
(c)carbon tetra chloride
(d)ethane
30.Biomass is a renewable form of energy. True of false?
31. The purpose of a rheostat is:
(a) Increase the magnitude of current only
(b) Decrease the magnitude of current only
(c) Increase or decrease the magnitude of current
(d) None of these 32. A fuse wire is inserted in a?
(a) . Live wire
(b) . In the neutral wire
(c) . In the earth wire
(d) . May be connected in any line.
33 The resistance of a conductor is directly proportional to:
(a) Its area of cross-section
(b) density
(c) melting point
(d) length
34. Focal length of plane mirror is
a. At infinity b. Zero
c. Negative
d. None of these
35. The radius of curvature of a mirror is 20cm the focal length is
a. 20cm
b. 10cm
c. 40cm
d. 5cm

- 36. Power of the lens is -40, its focal length is
 - a. 4m
 - b. -40m
 - c. -0.25m
 - d. -25m
- 37. Which of the following is a component of bio-gas?

- a. Methane
- b. LPG
- c. CNG
- d. Hydrogen sulphide
- 38. Which method is used to produce electricity in thermal power plant?
 - a. By heating chargeable cells
 - b. By boiling water
 - c. By pushing pistons by heat energy
 - d. Any of above
- 39. The image formed by retina of human eye is
 - a. Virtual and erect
 - b. Real and inverted
 - c. Virtual and inverted
 - d. Real and erect
- 40. The amount of light entering the human eye is controlled by
 - a. Ciliary muscles
 - b. Pupil
 - c. Cornea
 - d. Iris
- 41. The persistence of vision for human eye is
 - a. 1/10th of a second
 - b. 1/16th of a second
 - c. 1/6th of the second
 - d. 1/18th of a second
- 42. The part of the eyes refracts light entering the eye from external objects?
 - a. Lens
 - b. Cornea
 - c. Iris
 - d. Pupil
- 43. What happens to the current in short circuit?
 - a. reduces substantially
 - b. .does not change
 - c. increases heavily
 - d. vary continuously
- 44. What is electromagnetic induction?
- a. the process of charging a body
- b. The process of rotating a coil of an electric motor.
- c. producing induced current in a coil due to relative motion between a magnet and the coil
- d. The process of generating magnetic field due to a current passing through a coil.
- 45. Which of the following is normally used in solar cookers for trapping solar energy?
 - a. Solar panels
 - b. Silicon cells
 - c. Mirrors
 - d. Any of above

DAV PS, Chhal

Science (086)

- Q1. Which of the following are exothermic processes?
 - (i) Reaction of water with quick lime
 - (ii) Dilution of an acid
 - (iii) Evaporation of water
 - (iv) Sublimation of camphor (crystals)
 - (a) (i) and (ii) (b) (ii) and (iii)
 - (c) (i) and (iv) (d) (iii) and (iv)
- Q2. Which of the following is not a physical change?

- (a) Boiling of water to give water vapour(b) Melting of ice to give water
- (c) Dissolution of salt in water
- (d) Combustion of Liquefied Petroleum Gas (LPG)
- Q3. Barium chloride on reacting with ammonium sulphate forms barium sulphate and ammonium chloride. Which of the following correctly represents the type of the reaction involved?
 - (i) Displacement reaction
 - (ii) Precipitation reaction
 - (iii) Combination reaction
 - (iv) Double displacement reaction
 - (a) (i) only (b) (ii) only
 - (c) (iv) only (d) (ii) and (iv)
- Q4. Which one of the following processes involve chemical reactions?
 - (a) Storing of oxygen gas under pressure in a gas cylinder
 - (b) Liquefaction of air
 - (c) Keeping petrol in a china dish in the open
 - (d) Heating copper wire in presence of air at high temperature
- Q5. Which of the following gases can be used for storage of fresh sample of an oil for a long time?
 - (a) Carbon dioxide or oxygen
 - (b) Nitrogen or oxygen
 - (c) Carbon dioxide or helium
 - (d) Helium or nitrogen
- Q6. Electrolysis of water is a decomposition reaction. The mole ratio of hydrogen and oxygen gases liberated during electrolysis of water is
 - (a) 1:1
 - (b) 2:1
 - (c) 4:1
 - (d) 1:2
- Q7. Sodium carbonate is a basic salt because it is a salt of
 - (a) strong acid and strong base
 - (b) weak acid and weak base
 - (c) strong acid and weak base
 - (d) weak acid and strong base
- Q8. Calcium phosphate is present in tooth enamel. Its nature is
 - (a) basic
 - (b) acidic
 - (c) neutral
 - (d) amphoteric
- Q9. Which of the following is acidic in nature?
 - (a) Lime juice
 - (b) Human blood
 - (c) Lime water
 - (d) Antacid
- Q10. Which of the following is used for dissolution of gold?
 - (a) Hydrochloric acid
 - (b) Sulphuric acid
 - (c) Nitric acid
 - (d) Aqua regia
- Q11Which among the following is not a base?
 - (a) NaOH

(b) KOH	
(c) NH4OH (d) C2H5 OH	
` '	Column (A) with theirappropriate application given
in Column (B)	ordinii (A) with therrappropriate application given
Column(A)	column(B)
A.Bleaching powder	i Preparation
of glass	1 Freparation
B.Backing soda	ii Production of H ₂ andCl ₂
C.Washing soda	iii.Decolouration
D.Sodium chloride	iv Antacid
D.Sourum emoriae	1 V Mitteeld
(a) A—(ii), B—(i), C—(iv), D—(iii)	
(b) A—(iii), B—(ii), C—(iv), D—(i)	
(c) A —(iii), B —(iv), C —(i), D —(ii)	
(d) A—(ii), B—(iv), C—(i), D—(iii)	
(a) 11 (ii), b (iv), c (i), b (iii)	
Q13. Which of the following statements is true	e for acids?
(a) Bitter and change red litmus to blue	2
(b) Sour and change red litmus to blue	
(c) Sour and change blue litmus to red	
(d) Bitter and change blue litmus to red	d
Q14. Match the acids given in Column (A) wi	th their correct source givenin Column (R)
Column (A) Column	
(a) Lactic acid (i) Toma	·
(b) Acetic acid (ii) Lemo	
(c) Citric acid (iii) Vine (d) Oxalic acid (iv) Cure	<u> </u>
` '	Column (A) with the chemical formulae given in
Column (B)	ordinii (A) with the chemical formulae given in
Column (A)	Column (B)
(a) Plaster of Paris	(i) Ca(OH)2
(b) Gypsum	(ii) CaSO4.1/2 H2O
(c) Bleaching Powder	(iii) CaSO4.2H2O
(d) Slaked Lime	(iv) CaOCl2
(6) 234116 21116	(21) 848 8.2
Q16 The ability of metals to be drawn into thi	n wire is known as
(a) ducteility	
(b) malleability	
(c) sonorousity	
(d) conductivity	
Q17. Which one of the following metals do no	ot react with cold as well as hot water?
(a) Na	
(b) Ca	
(c) Mg	
(d) Fe	
Q18Which of the following are not ionic comp	pounds?
(i) KCl	
(ii) HCl	
(iii) CCl4	
(iv) NaCl	
(a) (i) and (ii) (b) (ii) and (iii)	

- (c) (iii) and (iv) (d) (i) and (iii)
 Q19 Silver articles become black on prolonged exposure to air. This is due to the formation of
 (a) Ag3N
 (b) Ag2O
 (c) Ag2S
 (d) Ag2S and Ag3N
 Q20.Which of the following non-metals is a liquid?
 - (a) Carbon
 - (b) Bromine
 - (c) Phosphorus
 - (d) Sulphur
 - Q21. Give the formulae of the stable binary compounds that would be formed by the combination of following pairs of elements.
 - (a) Mg and N2
 - (b) Li and O2
 - (c) Al and Cl2
 - (d) K and O₂
- Q22. Generally, non-metals are not conductors of electricity. Which of the following is a good conductor of electricity?
 - (a) Diamond
 - (b) Graphite
 - (c) Sulphur
 - (d) Fullerene
- 23. A molecule of ammonia (NH3) has
 - (a) only single bonds
 - (b) only double bonds
 - (c) only triple bonds
 - (d) two double bonds and one single bond
- 24. Buckminsterfullerene is an allotropic form of
 - (a) phosphorus
 - (b) sulphur
 - (c) carbon
 - (d) tin
- Q25The soap molecule has a
 - (a) hydrophilic head and a hydrophobic tail
 - (b) hydrophobic head and a hydrophilic tail
 - (c) hydrophobic head and a hydrophobic tail
 - (d) hydrophilic head and a hydrophilic tail
- Q26. Which of the f7ollowing statements about the Modern Periodic Table is correct:
 - (a) It has 18 horizontal rows known as Periods
 - (b) It has 7 vertical columns known as Periods
 - (c) It has 18 vertical columns known as Groups
 - (d) It has 7 horizontal rows known as Groups
- Q27Which of the following are the characteristics of isotopes of an element?
 - (i) Isotopes of an element have same atomic masses
 - (ii) Isotopes of an element have same atomic number
 - (iii) Isotopes of an element show same physical properties
 - (iv) Isotopes of an element show same chemical properties
 - (a) (i), (iii) and (iv) (b) (ii), (iii) and (iv)
 - (c) (ii) and (iii) (d) (ii) and (iv)
- Q28On moving from left to right in a period in the periodic table, the size of the atom.
 - (a) increases

		. К	
	i. Li iii. H		
2.Whi	ich of the following is most reactive		
	ii. Cu(OH)2 iv.	. ZnSO4	
	i.Cuo iii.	Acidified CuSO4(aq)	
1.In el	lectrolytic refining of copper, the elec	ctrolyte used is	
	STION BANK	SCIENCE	CLASS-X
		t DAV PS Raigarh	
Q49.	Which part of solarcooker is response	<u>-</u>	
	largest?	onsible for arean house offeat?	
_	When in the force experienced by	a current carrying conductor place	ea in a magnitic field
	(a) Mass (b) Speed	(c) Velocity	(d) Momentum
	field? (a) Mass (b) Speed	(a) Valogity	(d) Momentum
_	Which of the following property of field?	or a proton can enange while it mov	ves freely in a magnetic
	(a) Pupil (b) retina Which of the following property of	(c) ciliary muscles	(d) iris
_	The change in focal length of eye		(d) :
	(a) Kerisene (b) Water		(d) Glycerine
	light incident obliguely at same ar	•	(d) Clysoning
_	You are given water mustand oil g		r tnese media, a ray of
_	Name a mirror that can give an ere	o o	
044	X		
-	a)Adrenalline b)Thyroxin c)Aldo	osterone d)Oxytocin.	
Q43.		ols the Basal metabolic rate in anim	nal.
_	a)Auxin b)Gibberellins c)ABA c	<u>•</u>	
Q42.		arried out by-	
	called		
Q41.	-		
Q40.	· · · · · · · · · · · · · · · · · · ·		
Q 37.	a)Hyothalamus b)Cerebrum c)Cl	•	
Q39.	_	·	iiio i
Q38.	a)Urethra b)Glomerulus c)Ureter	complete photosynthesis unit of pla	nts?
Q37.	· · · · · · · · · · · · · · · · · · ·		
027		na cava c)Sino-artrial node d) Infe	nor vena cava.
Q36.	<u>=</u>		
Q35.	*	atory tract is checked by	
Q34.	•	ventricular relaxation is called	
024	d)Pepsin	iv)Saliva	
	c)Parasitic Nutrition iii)Ga		
	b)Amylase	ii)Liver	
	a)Trypsin	i)Pancrease	
Q33.			
	a)Garden b)Pond c)Aquarium d)	Crop Field	
Q32.	-		
Q31.		ate the opening & closing of stoma	tal pore?
	appearance of girls when they ap	• • • •	
Q30.		nich is responsible for dramatic cha	anges in
	a)Vertebral Coloum b)Sternum o		
Q29.	Name the hormone which protect	ets the spinal cord in the human boo	dy?
	(d) first decreases and then incre	eases	
	(c) does not change appreciably		
	(0) 000100000		

(b) decreases

3.The filteration unit of kidney is called
i.ureter iii. urethra
ii. neurons iv. Nephrons
4.where does fertilization occur
i.uterus iii. Fallopian tube
ii. ovary iv. Cervix
5.trophic level in an ecosystem represents
i.oxygen level iii. Water level
ii. energy level iv. Salt level
6.Deplation of ozone layer is mainly due to
7 is known as father of genetics.
8 is non metal which is lusturous.
9.Iodine turns blue black on reacting with
10.The chipko andolan was originated in
10.The empto undolah was originated m
3. What is exothermic reaction?
11. What do you mean by rancidity?
12. Name one metal and one non-metal which is liquid at room temperature.
13. Why is carbon tetravalent?
14. Draw the dot structure of ethane molecule.
15. What was the basis of modern periodic law?
16. Name the site of aerobic respiration in cells?
17. Why hormones are known as "chemical messengers"?
18. Name two organisms which reproduced through binary fission?
19 . Define syngamy?
20. Write the formulae of plaster of paris?
21. what is roasting?
22. The focal length of a convex mirror of radius of curvature 35 cm is
(a) 70 cm (b) 17.5 cm (c) 35 cm (d) None of these.
23 lens is used as corrective lens in the defect of vision of Myopia.
24. A produces uniform magnetic field inside it. A solenoid or a bar magnet.
25. An electric generator is based on the
26. The energy from the wind is a source of energy.27. State Flemings left hand rule.
28. Calculate the amount of work done in moving a charge of 5 mC between two points where the
potential difference is 50V.
29. The equivalent of two resistances 5 Ohm and 6 Ohm when joined in parallel is
(a) 11/30 Ohm (b) 11 Ohm (c) 30 Ohm (d) 30/11
30. What is the Focal length of a plane mirror? Give answer using mirror formula.
31. What is the position & nature of the image of an object placed at the focus of convex lens?
32. The Far point of a person suffering from Myopia is
33. The most deviated color in dispersion of light is
34. Find the refractive index of the medium in which the speed of light is 1.5×10^8 m/sec.
35. Define the term "solar constant"
36. Define Nuclear Fusion. Give one example.
37 A wire has resistance of 6 Ohm is carrying a current of 10 ampere. Calculate the potential difference
across it.
38. What do you mean by triple fusion?
39. Define biomagnification?
40. What is corrosion?

ANSWERS PHYSICSCLASS X

- 1. (b) 17.5
- 2. Concave
- 3. A Solenoid
- 4. Electromagnetic Induction

- 5. Renewable source of energy
 6. It states that the forefinger of left hand gives the direction of magnetic field, central finger gives direction of current and the thumb gives the direction of force on current carrying conductor if three are mutually perpendicular.
 7. 0.25 J
 8. 30 / 11 ohm
 9. Infinity by i/f= 1/v + 1 / u
- 11. Less than infinity.
- 12. Violet
- 13.2
- 14. Definition
- 15. Definition
- 16.60 V

ANSWER KEY Class- X

1. Acidifid CuSO4(aq)

10. Infinity, real inverted and magnified image.

- 2. K
- 3. Nephron
- 4. Fallopian tube
- 5. Energy level
- 6. CFCs
- 7. G. j. Mendel
- 8. Iodine
- 9. Starch
- 10. Uttrakhand, mandal village
- 11. Heat releasing chemical reaction
- 12. Smell produced from oily food stuff.
- 13. Because it share four electrons
- 14. Refer NCERT Text book
- 15. Atomic number
- 16. Mitochondria
- 17. Because it is directly released in blood
- 18. Amoeba, leishmania
- 19. Process of fusion of gamete
- 20. CaSO4.1/2H₂O
- 21. Heating metal ore in presence of excess air
- 22.
- 23.
- 24.
- 25.
- 26.
- 27.
- 28.
- 29.
- 30.
- 31.
- 32.
- 33.
- 34.
- 35.
- 36.
- 38. 2nd male gamete + polar nuclei = Endosperm.
- 39. Increasing toxicity by increasing trophic levels.

DAV PS, Rajhara

Short Answer Questions(1 mark Questions) Session 2019-20

Class 10th - General Science

1. The following reaction is an example of a $4NH_3(g) + 5O_2(g) \rightarrow 4NO(g) + 6H_2O(g)$

1.displacement reaction 2.combination reaction 3.redox reaction

4.neutrilisation reaction

(a)1 and 4 (b)2 and 3 (c) 1 and 3 (d)3 and 4

2.Balance the chemical equation – Na(s) + S(s) \rightarrow Na₂S(s)

3. Calcium phosphate is present in tooth enamel .It's nature is

(a)basic (b)acidic (c)neutral (d)amphoteric

4. The pH of gasteric juices released during digestion is

(a)less than 7 (b)more than 7 (c) equal to 7 (d)equal to 0

5. Which of the following is acidic in nature?

(a)lime juice (b)Human Blood (c)lime water (d)antacid

6. The ability of metals to be drawn into thin wire is known as

(a)ductility (b)sonorousity (c)malleability (d)conductivity

7. What happens when (a) Zinc carbonate is heated in the absence of oxygen?

8.An element form an oxide A_2O_3 which is acidic in nature.

Identify A as a meta or non metal

9.A molucule of ammonia(NH₃) has

(a)only single bond (b)only double bond (c)only triple bond (d)two double bond and one single bond

10.Pentane has the molecular formula C_5H_{12} .It has

(a)5 covalent bond (b)6 covalent bond (c)12 covalent bond (d)17 covalent bond

11. Upto which element, the law of octaves was found to be applicable?

(a)Oxygen (b)Calcium (c) Cobal (d)Potassium

12. An element which is an essential constituent of all organic compounds belongs to

(a)group 1 (b)group 14 (c)group 15 (d)group 16

13. Arrange the following elements in the orde their decreasing metallic character Na, Si, Cl, Mg, Al

14. What is the full form of ATP?

15. Which enzyme is used to digest fat in our body?

16. Which chemical is used to detect presence of starch in the food?

17. Electrical impulse travel in a neuron from

(a) Dendrite \rightarrow Axon \rightarrow Axonal end \rightarrow Cell body

(b)Cell body \rightarrow Dendrite \rightarrow Axon \rightarrow Axonal end

(c)Dendrite \rightarrow Cell body \rightarrow Axon \rightarrow Axonal end

(d)Axonal end \rightarrow Axon \rightarrow Cell body \rightarrow Dendrite

18.Posture and balance of the body is controlled by

(a)cerebrum (b)medulla (c)pons (d)cerebellum

19. The groth of pollen tubes towards ovules is due to

(a)hydrotropism (b)chemotropism (c)geotropism (d)phototropism

20.Define reflex action?

21. Name two sexually transmitted diseases.

22. What do you mean by pollination?

23. Define evolution.

24.If a round, green sedded pea plant (RR yy) is crossed with wrinkled, yellow seeded pea plant, (rr YY) the seeds productions in F₁ generation are

(a)Round and yellow (b)Round and green (c)Wrinkled and green (d)Wrinkled and yellow

25. Name two different types of wild cabbage which are formed by artificial selection.

26. The theory of evolution of species by natural selection was given by

- (a)mendel (b)Darwin (c)Morgan (d)Lamarck
- 27. Magnification produced by a rear view mirror fitted in vehicles
- (a)is less than 1 (b)is more than 1 (c)is equal to 1 (d)can be more than or less than one depending upon the position of th object in front of it
- 28. Which of the following can make a parallel beam of light when light from a point source is incident on it?
- (a)concave mirror as well as convex lens (b)convex mirror as well as concave lens (c)Two plane mirrors placed at 90^0 to each other (d)concave mirror as well as concave lens
- 29. The laws of reflection hold good for
- (a)plane mirror only (b)concave mirror only (c)convex mirror only (d)allmirrors irrespective of their shapes
- 30.A person cannot see distinctly objects kept beyond 2m. This defect can be corrected by using a lens of power
- (a)+0.5D (b)-0.5D (c)+0.2D (d)-0.2D
- 31. Why do the sun appears white at noon time?
- 32. What is the reason for twinkling of stars?
- 33. Define hypermetropia.
- 34.On which factor electrical restivity of a given metallic wire depends upon?
- 35.A current of 1A is drwan by a filament of an electric blub . Number of electrons passing through a cross section of the filament is 168 would be roughly
- (a) 10^{20} (b) 10^{60} (c) 10^{18} (d) 10^{23}
- 36. What is the miminum resistance which can be made using 5 resistors each of $1/5 \Omega$?
- 37. What is the role of fuse, used in series with any electrical appliance?
- 38. What is the reason of acid rain?
- 39. Define biomagnification.
- 40. Name two traditional water harvesting system.

DAV PS, Chirimiri

CLASS X SCIENCE PHYSICS MCQ LIGHT - REFLECTION AND REFRACTION

Question :-

- 1. Which of the following is not due of refraction?
- (i)The bottom of bucket seems elevated
- (ii) Rainbow Formation
- (iii) Inverted Image Formed in spoon
- (iv)Star appears twinkling

Ans: (iii)

- 2. How the focal length will vary if the lens is kept in water?
- (i)It will increase
- (ii)It will decrease
- (iii)It will remain same
- (iv)It will no longer work as lens

Ans: (i)

- 3. Which of the following forms only real inverted image?
- (i)Concave mirror
- (ii)Convex Mirror
- (iii)Convex Lens
- (iv)None of these

Ans: (iv)

4. Which of the following lens will d	iverge the ray of light more?
(i)2D	
(ii)1D	
(iii)-0.4D	
(iv)-0.8D	
Ans: (iv)	
5. Which of the following thing r	not happen when a ray of light passes from one transparent medium
to another?	
(i)It deviates it's path	
(ii) It's speed is changed	
(iii)Frequency of light changes	
(iv)Wavelength of light changes	
Ans: (iii)	
6. The magnification of an object pl	aced at centre of curvature of Concave mirror is?
(i)-1 (ii)-2 (iii) 1 (iv)	2
Ans: (i)	
HUMA	AN EYE AND COLORFUL WORLD
7. The image formed by retina of h	
	and inverted
c. Virtual and inverted	d. Real and erect
ANS: B	
8. The change in the focal length o	
a. Ciliary muscles b. Pupi	l c. Cornea d. Iris
ANS: A	
	ion for a young adult with normal vision is
a. 25 m b. 20 m	c. 25 cm d. 20 cm
ANS: C	
10. The persistence of vision for hu	•
a. 1/10th of a second	b. 1/16th of a second
c. 1/6th of the second	d. 1/18th of a second
ANS: B	
_	on retina and is sensitive to the intensity of light is:
a. Cones b. Rods	c. Both rods and cones d. None of these
ANS: B	all the first terms of the form of the
	sible for the working of the human eye is
	raction
c. Power of accommodation	d. Persistence of vision
ANS: B	is least scattered by fag. dust of smake?
a. Violet b. Blue	is least scattered by fog, dust of smoke? c. Red d. Yellow
ANS : C	c. Red G. Fellow
	most while passing through a prism is
a. Yellow b. Violet	c. Blue d. Red
ANS : B	c. blue u. neu
15. The amount of light entering the	ge human eve is controlled by
a. Ciliary muscles	ie numan eye is controlled by
b. Pupil	
c. Cornea	
d. Iris	
ANS: B	
	ght entering the eye from external objects?

a. Lens

- b. Cornea
- c. Iris
- d. Pupil

ANS: B

17.By which optical phenomenon does the splitting of white light into seven constituent colours occur?

[A] Refraction [B] Reflection [C] Dispersion [D] Interference

Ans: (C)

18. In human eye, the image of an object is formed at...

[A] iris [B] pupil [C] retina [D] cornea

Ans: (C)

19._____ lens is used to correct the defect of vision termed as presbyopia.

[A] Convex [B] Concave [C] Bifocal [D] Contact

Ans: (C)

ELECTRICITY

20. The rate of flow of an electric charge is known as:

(a) Electric potential (b)electric conductance (c)electric current (d)none of these

Ans: (c) electric current

21. The SI unit of electric current is:

(a)ohm (b)ampere (c)volt (d)faraday

Ans:(b)ampere

22. The instrument used for measuring electric current is:

(a)ammeter (b)galvanometer (c)voltmeter (d)potentiometer

Ans:(a)ammeter

23. The amount of work done in joules, when one unit electric charge moves from one point to another point in an electric circuit is called :

(a)electric current (b)electric resistance (c)electric conductance (d)potential difference

Ans:(d)potential difference

24. The unit of potential difference is:

(a)volt (b)ohm (c)ampere (d)faraday

Ans:(a)volt

25. The obstruction offered by material of conductor to the passage of electric current is known as:

(a)Resistance (b) Conductance (c) Inductance (d) None of these

Ans: (a)Resistance

26 The SI unit of resistance is:

(a) Newton (b) Ohm (c) Watt (d) Joule

Ans: (b) Ohm

- 27. A voltmeter is used to find potential difference in any electrical circuit which of the statement given below is true
- (a) A voltmeter is a high resistance instrument and is connected in series circuit
- (b) A voltmeter is a low resistance instrument and is connected in series circuit
- (c) A voltmeter is a high resistance instrument and is connected in parallel circuit
- (d)A voltmeter is a low resistance instrument and is connected in series circuit

Ans: (c) A voltmeter is a high resistance instrument and is connected in parallel circuit

MAGNETIC EFFECTS OF ELECTRIC CURRENT

- 28. In all the electrical appliances, the switches are put in the
- a. live wire
- b. earth wire
- c. neutral wire
- d. all of above

ANS: a

- 29. What is the condition of an electromagnetic induction?
- a. there must be a relative motion between the coil of wire and galvanometer
- b. there must be a relative motion between the galvanometer and a magnet
- c. there must be a relative motion between galvanometer and generator
- d. there must be a relative motion between the coil of wire and a magnet

ANS: D

- 30. No force acts on a current carrying conductor when it is placed-
- a. perpendicular to the magnetic field
- b. parallel to the magnetic field
- c. inside a magnetic field
- d. none of these

ANS: B

- 31. What is that instrument which can detect the presence of electric current in a circuit?
- a. galvanometer
- b. motor
- c. generator
- d. none of above

ANS: A

- 32. Which device produces the electric current?
- a. generator
- b. galvanometer
- c. ammeter
- d. motor e.

ANS: A

- 33. What is electromagnetic induction?
- a. the process of charging a body
- b. The process of rotating a coil of an electric motor.
- c. producing induced current in a coil due to relative motion between a magnet and the coil
- d. The process of generating magnetic field due to a current passing through a coil.

ANS:c

- 34. What happens to the current in short circuit?
- a. reduces substantially
- b. .does not change
- c. increases heavily
- d. vary continuously

ANS: C

SOURCES OF ENERGY

Fill in the blanks

- 35 In the wind energy farms, the wind speed should be higher than...... to maintain the required speed of the turbine. (15km/hr)
- 36 The energy produced during the controlled.....reactions is used for generating electricity at nuclear power plants. (nuclear fusion)
- 37 The energy availbale due to the difference in the temperature of water at the surface of the ocean and at deeper levels is called......(ocean thermal energy)
- 38 Biogas is an excellent fuel as it contains 75%..... (methane)

.....

 Xylem in plant is Transport of wat Transport of oxyger 	er l	o) Transport of food	c) Transport of an	nino acid d)	
2. Bowman capsulea)small intestined)Brain3. Which is not phy	b)ki	dneys	c)Heart		
a)Auxin d)Thyroxin	b)Absc	isic acid	c)Cytokinin		
4. Hormone Adrena	alin causes:-				
a) The heart to bear c) increase breathir		b) r	educe the concentrati d) all the above	on of muscles	
5. The transfer of p	ollen grains from a	nther to stigma is call	ed.		
a)Fertilization	b)Double f	ertilization	c)ovulation	d)pollination	
6. Menstruation pe	riod is completed i	n			
a)14 days	b)28 days	c)35days	(d)42 days	
7. Variation arises of	lue to:-				
a)mutation d)all the above	b)genetic recon	nbination	c)gene	etic drift	
8. Which is an exam	nple of homologou	s organs?			
a)fore limb of man	and wings of birds	b) wings of birds	and wings of insects		
c) Wings of bat and	wings of insects	d) wings of ba	t and wings of birds		
9.A food chain com entering the food c			. The concentration of	any harmful chemica	эl
a)Fish c)Green plants		b)Birds d)man			
10. Biodegradable s	substance is				
a)Glass bottle dung	d) All the above	<u>-</u>	Iron nail	c)Cow	,
11. Amrita Devi	BIshnoi National A	ward is awarded for			
a)Prevention of def d)None of these	orestation	b)Wild life conserva	tion c)Socia	l problem	
12. Bandhara and T	als are common sy	stem of water harvest	ting in		
a) Maharashtra Pradesh	b)Rajastha	n c) <i>F</i>	AndhraPradesh	d)Himachal	

Reason:-Analogous organs have unlike origin and dissimilar function.

13. Assertion:- homologous organs have common ancestory and similar function.

- a) Assertion and reason are true and reason is a correct explanation of assertion b) Assertion and Reasons are true but reason is not a correct explanation of assertion c) Assertion is true but the Reason is false d) Assertion and Reason are false e) Assertion is false but Reason is true 14. Lipase acts on a) Amino acid b) c) carbohydrates d) amino acid and fats fats 15. A patient of diabetes is not producing a)Insulin b)Oestrogen c) Thyroxin d)Adrenaline 2.B 3.D 4.D 5.D 6.B 7.D 8.A 9.D 10.C ANSWER KEY- (1.A 15.A) 11.B 12.A 13.D 14.B **DAV PS, BISHRAMPUR PHYSICS** Q1. Which of the following phenomena contributes significantly to the reddish appearence of the sun at sunrise or sunset? (a) Dispersion of light (b) Scattering of light (c) Total internal reflection of light (d) Reflection of light from the earth Magnification produced by a rear view mirror fitted in vehicles Q2. (a) Is less than one (b) Is more than one (c) Is equal to one (d) Can be more than or less than one depending upon the position of the object in front of it Q3. Where should an object be placed in front of a convex lens to get a real image of the size of the (a) At the principle focus of the lens (b) At twice the focal length (c) At infinity (d) Between the optical centre and its principle focus Q4. A person cannot see distinctly object kept beyond 2m. This defect can be corrected by using a lens of power (a) + 0.5D(b) -0.5D (c) + 0.2D(d) - 0.2DQ5. The human eye can focus an object at different distances ny adjusting the focal length of the eye
- lens this is due to
- (a) Presbyopia

(b) Accommodation (c) Near sightedness (d) Far sightedness Q6. The change in focal length of an eye lens is caused by the action of (a) Pupil (b) Retina (c) Ciliary muscles (d) Iris Q7. Electrical resistivity of a given metallic wire depends upon (a) Its length (b) Its thickness (c) Its shape (d) Nature of the material Q8. The phenomenon of electro magnetic induction is (a) The process of charging a body (b) The process of generating magnetic field due to a current passing through a coil (c) producing a induced current in a coil due to relative motion between the magnet and the coil (d) The process of rotating a coil of an electric motor Q9. The strength of magnetic field inside a long current carrying straight solenoid is (a) More at the ends than at the centre (b) Minimum in the middle (c) Same at all the points (d) None of these Q10. Which is the ultimate source of energy (a) Water (b) Sun (c) Uranium (d) Fossil fuels Q11. Ocean thermal energy is due to (a) Energy stored by the waves in the ocean (b) Tempreture difference at different level in the ocean (c) Pressure difference at different levels in the ocean (d) Tides arising out in the ocean Assertion and Reasoning type questions **DIRECTIONS:-**In each of the following questions a statement of assertion is given followed by corresponding statement of reason just below it . Mark the correct answer as (A) If both assertion and reason are true and reason is the correct explaination of assertion (B) If both assertion and reason are true but reason is not the correct explaination of assertion (C) If assertion is true but reason is false (D) If assertion is false but reason is true Q12. Assertion: The inside of a solar cooker is painted black Black does not allow heat to escape (a) A (b) B (c) C (d) D Q13. Assertion:- A wire carrying current differ from a wire which carries no current A magnetic field is generated only around the current carrying conductors Reason:-(a) A (b) B (c) C (d) D

Q14. Assertion:- If a wire is stretched such that its area is halved, its resistance would become 4 times

Reason:- The data is insufficient to predict

(a) A (b) B (c) C (d) D

Q15. Assertion :- The relation V = IR is valid even in the case of devices which do not obey ohm's law

Reason:- V/I = R

(a) A (b) B (c) C (d) D

Q16. Assertion:- The sun appears red during sunrise or sunset

Reason:- Scattering of light is directly propotional to the wave length.

(a) A (b) B (c) C (d) D

Q17. Assertion:- In a movie ordinarily 24 frames are projected per second from one end to the other of the complete film

Reason:- The image formed in the retina of the eye is sustained upto a second after the removal of stimulus .

(a) A (b) B (c) C (d) D

CHEMISTRY

- 1. The electrolytic decomposition of water gives H₂ and O₂ in the ratio of
 - A.1:2 by volume
 - B.2:1 by volume
 - C.8:1 by mass
 - D. 1:2 by mass
- 2. In the thermal decomposition of lead (II) nitrate to give lead (II) oxide,
 - A. SO₂ and SO₃ are evolved with smell of burning sulphur
 - B. White ppt of BaSO₄ is formed
 - C. Yellow ppt of Pbl2 is formed
 - D.Brown fumes of NO₂ is evolved

3Fatty foods become ranciddue to the process of

- A. Oxidation
- B. Corrosion
- C. Reduction
- D. Hydrogenation
- 4. We store silver chloride in dark coloured bottles because it is
 - A.White solid
 - B. It decomposes in presence of sunlight
 - D. It undergoes corrosion
 - E. None of the above
- 5. The reaction of H₂ gas and O₂ gas to form water is an example of

A.Combination reaction

- B. Decomposition reaction
- C.Displacement reaction
- D. Double displacement
- 6. Which of the following will undergo addition reaction

A. CH₄

- $B.\ C_3H_8$
- $C. C_2H_6$
- D. C₂H₄
- 7. A soap molecule has

A. Hydrophobic head and hydrophobic tail

- B. Hydrophobic head and hydrophilic tail
- C.Hydrophilic head and hydrophilic tail

D.Hydrophilic head and hydrophobic tail 8.Cyclohexane has the formula A.C₆H₆

B. C₆H₁₄

C. C₆H₁₂

D. C₆H₁₀

9. When ethanol reacts with ethanoic acid in presence of an acid catalyst the product formed is

A. Ethene

B. Ethyl ethanoate

C.Chloromethane

D. Sodium ethanoate

10. The compound used for removing permanent hardness of water

A.NaHCO₃

B.CaSO₄, 2H₂O

C.CaOCl₂

 $D.Na_2CO_3.10\ H_2O$

11. When excess base is dissolved in a solution of sodium hydroxide

A. Concentration of H₃O⁺ increases

B. Concentration of H₃O⁺remains same

C. Concentration of OH increases

D. Concentration of OH decreases

12. The acid present in tamarind is

A. Oxalic acid

B.Acetic acid

C.Tartaric acid

D.Methanoic acid

Reasoning Assertion Based Questions

A.If both assertion and reason are true and reason is the correct explanation for vthe assertion

B. If both assertion and reason are true but reason is not the correct explanation of assertion

C. If assertion is true but reason is false

D.If both assertion and reason are false

13. Assertion-Silicon, Germanium, Arsenic are called metalloids

Reason-They exhibit the properties of metals and non metals

14. Assertion- Soaps do not work well in hard water

Reason-Soaps are prepared by saponification reaction

15. . Assertion- As we move across the period from left to right metallic character increases

Reason – Across the period the effective nuclear charge acting on the valence shell increases andtendency to loose electron will decrease

16. . Assertion- Colour of copper sulphate solution does not change when iron nail is kept in itReason – Iron is more reactive than copper and displaces copper from its

Salt solution

17. Assertion- Nitrogen is flushed in potato chips to preserve acidity of potato chips Reason – Nitrogen prevents contact of chips to air and thus prevents

Oxidation

BIOLOGY

1. The autotrophic mode of nutrition requires .

a) CO₂ AND H₂O b) Chlorophy

b) Chlorophyll c) Sunlight d) All of these.

Ans- d

2. Name the enzyme present in saliva?

Ans- Salivary amylase

3. What is the biological oxidation of food stuffs in the living cells called?

Ans- Respiration

4. What is the functional unit of lung? Ans- Alveoli 5. Why do trachea and bronchi not collapse when air is exhaled out during respiration? Ans- Their wall is supported by C- Shaped cartilaginous rings. 6. Name the tissue concerned with upward movement of water? Ans- Xylem 7. Which half of human heart has deoxygenated blood? Ans- Right half 8. What are the pumping chambers of heart called? **Ans- Ventricles** 9. Name the structural and functional unit of kidney? **Ans- Nephrons** 10. Name the process of artificial removal of nitrogenous waste fom blood called? Ans- Haemodialysis 11. Name the component of blood responsible for transporting oxygen? 12. Which plant hormone regulate cell division and differentiation in plants? Ans- Cytokinins 13. The main function of abscisic acid: a) Increase in length of cells b) Promote cell division d) Promote growth of stem c) Inhibit growth ans- c 14. Which part of brain is considered as seat of intelligence and memory? Ans- Cerebrum. 15. Name the functional unit of nervous system? Ans- Neuron. 16. Body coordination is exhibited by: a) Nervous system b) Endocrine system c) Neuroendocrine system d) Blood vascular system ans- c 17.what is a synapse? Ans- A small gap between a neuron. 18. The use of iodised salt is recommended to prevent? Ans- Goitre 19. Name the component that stores blue print of next generation? Ans- DNA- Deoxyribonucleic acid. 20. Name the type of asexual reproduction in which parent organism divides into many organisms? Ans- Multiple fission 21. What is the attachment of developing embryo with the uterine wall of mother called? Ans- Placenta. 22. Attainment of sexual maturity is called: b) Adolescence c) Growth d) Development a) Puberty Ans- a 23. What is the function of testis? Ans- Formation of male germ cells 24. Name the term used for control of fertility? Ans- Contraception. 25. Who is known as father of genetics? Ans- Gregor Johann Mendel. 26. Give the genotypic ratio of F2 generation of monohybrid cross? Ans- 1:2:1 27. Give one essential function of ozone?

28. In a food chain , energy flow isa) Unidirectionalb) Bidirectionalc) Multidirectionald) No define pattern

Ans- Protection from UV rays.

ans- a

29, Expand the term GAP

ANS- Ganga Action Plan

30. On which river Sardar Sarovar Dam is built:

Ans- Narmada

DAV PS, PANDAVPARA

OBJECTIVE TYPE QUESTIONS: 2019-20

Class-X

SCIENCE (BIOLOGY)

1.In a village some children has swollen neck is deficient in their diet.
Ans. Iodine
2 hormone regulates carbohydrate , protein and fat metabolism in the body. Ans.Thyroxin
3. The junction between two nerve cells is
Ans. Synapse
4. The person with blood group doesn't have any antigen.
Ans. 'o'
5. When chromosome of male fuses to chromosome of female ,boy child is
produced.
Ans. Y and X
6. The entry of food into the respiratory tract is checked by
Ans. Epiglottis
7. In human beings,pigment is present which has a very high affinity for oxygen.
Ans. Haemoglobin
8. The wall of contain an extensive network of blood vessels and provide surface for exchange of gases.
Ans. Alveoli
9 is the intermediate product of both aerobic and anaerobic respiration.
Ans. Pyruvate
10. Air moves in and out of the lungs of human beings as a result of the movement of and
And Diba and Disabases
Ans. Ribs and Diaphragm
11. The alimentary canal is a long tube extending from the and
Ans. Mouth and Anus
12. The Bowman's capsule contains a bundle of blood capillaries which is called
Ans. Glomerulus
13. Chipko movement was started from village.
Ans.Reni (Garhwal)
14 dam is built over Narmada river.
Ans. SardarSarovar Dam
15 forms a common passage for urine as well as sperm.
Ans. Urethra
16 is the pancreatic enzyme digests protein in the alimentary canal.
Ans.Trypsin
17. Which of the following pair of organs help in removal of wastes?
(a) Kidney, heart (b) kidney, stomach
(c) kidney , skin (d) skin , brain
Ans. Kidney , skin
18. Local system of canal irrigation in the Himachal Pradesh is known as
(a) Drip irrigation (b) split irrigation
(c) kulh (d) Bundhis
Ans. Kulh
19. A boy is riding a bicycle ,which part of brain is responsible for this action ?
(a)Pons (b) cerebrum

(c)Medulla (d) Cerebellum

Ans. Cerebellum

20. Study of human evolution comes under

(a) Palacontology (b) Anthropology

(c)Anthrology (d)Mammology

Ans. Anthropology