



Subject: S	Science Assessment Work	shee	t: 01		
Class: X	Name of Student	• • • • • •			
Darken th	e circle against the correct option of t	the fo	llowin	g questions with a pencil /	pen:
① Symbol	of Sodium, Copper and Magnesium ar	e resp	ective	ly	
(a)	Na, Mg and Cu	0	(b)	Na, Cu and Mg	0
(c)	Mg, Na and Cu	0	(d)	Cu, Na and Mg	0
② Symb	ol of Chlorine and Chloride are respect	ively			
(a)	Cl and cl-	0	(b)	Cl ⁻ and cL	0
(c)	Cl and Cl ⁻	0	(d)	cl ⁻ and cl	0
3 Formu	ala formed by the combination of Silver	r and	Iodine	is	
(a)	Agi	0	(b)	AGI	0
(c)	AgI	0	(d)	agI	0
4 Valen	cy of Potassium and chlorine are respec	ctivel	y		
(a)	+1 and +1	0	(b)	+1 and +2	0
(c)	+1 and -1	0	(d)	-1 and +1	0
⑤ The co	orrect formula of Calcium phosphate is				
(a)	Ca ₃ (PO ₄)	0	(b)	$Ca_3(PO_4)_2$	0
(c)	Ca (PO ₄) ₂	0	(d)	$Ca_2(PO_4)_3$	0
6 The atoms of the same element, having the same atomic number but different mass numbers					
are					
(a)	Isobars	0	(b)	Isotopes	0
(c)	Isomers	0	(d)	Isotherm	0
7 Chem	ical formula of Aluminium hydroxide i	S			
(a)	Al (OH)	0	(b)	Al (OH) ₂	0
(c)	Al (OH) ₃	0	(d)	Al ₃ (OH)	0
8 Atom	ic number of an atom is equal to	p	resent	in an atom.	
(a)	Number of electrons	0	(b)	Number of protons	0
(c)	Number of neutrons	0	(d)	Both (a) and (b)	0
Sodiu	m is written as 11Na ²³ which indicates the	hat it	has		
(a)	atomic number 23 and mass number 2	23.			0
(b)	atomic number 11 and mass number 1	1			0
(c)	atomic number11 and mass number 23	3			0
(d)	atomic number11 and mass number 34	4			0
\bigcirc Mg(OH) ₂ is					
(a)	Magnesium oxide	0	(b)	Magnesium hydroxide	0
(c)	Milk of Magnesia or Magnesium	0	(d)	Magnesium oxyhydrogen	0
	hydroxide				



PHYSICS-CHEMISTRY - BIOLOGY Workshee

C	lass: X		Asse	essment Worksl	neet: 2	
S	ubject: Science	Name of the S	tudent	•••••		
	It has been dSECTION-I		VO SEC	CTIONS. noice Questions	(MCQ) of 1 mark ions of 3 marks eac	
				SECTION-I		
R	ead the given pa	ragraph carefi	ılly and	d answer the fol	lowing questions.	$(1 \times 5 = 5)$
Ca ph	rbon, Nitrogen, Oxy ysical properties.	ygen etc. They car	be class	sified as metals and		is of their chemical and
po co	tassium which are s	soft metals), Sono	rous (exc	cept Sodium and Po	at room temperature), Fotassium), Lustrous (ex converted into sheets),	
	Mercury is a meta (a) solid	l which is (b) liquid		n temperature. gas	(d) both solid and li	quid
2.	Which property of (a) Sonorous	f metals is used for (b) Malle		bells and strings of (c) Duc	f musical instruments litility	ike Sitar and Violin? (d) Conductivity
3.	A metal X is soft at the element from t		ı a knife.	. This is very reacti	ve to air and cannot be	kept open in air. Identify
4.	(a) Mg Aluminium is used responsible for the		Na ing utens	(-)	P (d) ollowing properties of A	Ca Aluminium are
5.	(i) Good conducto (a) (i) and (ii) Nitrogen is a		sonorou d (iii)	s (iii) Ductility (c) (ii) ar		(d) (i) and (iv)
	(a) metal	(b) non -r	netal	(c) metalloid	(d) neither me	etal nor metal
				SECTION-II	($(3 \times 5 = 15)$
6.				racted by both the phave been used to		its body is not attracted
7.	A magnet has two	poles-north pole ε	ınd south	pole. State whether	er it will be an attraction	n or repulsion?
	a. NORTH-	NORTH.	b.	SOUTH - SOUTH	c. NORTH-	SOUTH
8.	What are electrom	agnets, how its st	rength ca	an be changed?		
9.	A bar magnet has	no markings to inc	licate its	poles. How would	you find out near which	h end are its north and

10. If a magnet is broken into two pieces. The new magnets formed will have two poles. Justify this statement.

south poles located?





Subject: Scie	nce	Assessmen	t Worl	ksheet: 03		
Class: X	Name of Stu	dent	••••			
		Assertion a		ason		
For question number 1,2,3,4 and 5, two statements are given- one labeled Assertion (A) and the other labeled Reason (R). Select the correct answer to these questions from the codes a, b, c and d. as given below. Darken the circle against the correct option of the following questions with pencil/pen: 1 X 5 a. Both A and R are true, and R is correct explanation of the assertion. b. Both A and R are true, but R is not the correct explanation of the assertion. c. A is true, but R is false. d. A is false, but R is true						
1. Assertion	(A): Quicklime	reacts vigorously v	with wa	ater releasing	a large a	amount of heat.
Reason(F	b. O	chemical reaction is c.	o an exo	othermic reac d.	ction O	
		2Alemical equation is a being more reactive O	an exar			reaction. on(Fe) from its oxide.
	(R): Decompo	ver chloride turns gosition of silver chloretal and chlorine go	oride ir		sunlight	takes place to form
		cing of chemical eq of reactants is equa				onservation of mass.
	R): Respiration	n is an exothermic in is a process in who dioxide and water.	ich glu	cose combine		oxygen and decompose me energy.
Multiple choice questions:						
Darken the circle against the correct option of the following questions (6 -10) with pencil/pen: 1 X 5						
a. Exb. Exc. C	stion of methan xothermic react ndothermic react ombustion ecomposition re	etion O				



PHYSICS-CHEMISTRY-BIOLOGY Workshee

Sulp a. b. c.	hate changes to Green to blue Blue to green	aqueous solution of Copper Sulphate. The colour of Copper O O O O
8. The a. b. c. d.	Calcium oxide Calcium hydroxide Calcium chloride	X' is used for white wash. Substance 'X' is - O O O O
a. b	Displacement Combination Decomposition	Ons take place when electricity is passed through water? OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
; 1	the ratio in which hydro a. 1:2 b. 1:1 c. 2:1 d. 1:8	gen and oxygen are present in water (by volume). O O O O



Subject: Science Worksheet:4

Class: X Name of Student:

ACIDS, BASES and SALTS

Read the passage given below and choose the correct option of Question Number 1 to 5 by putting a tick mark ($\sqrt{}$) against them. 1X5

When Copper vessel is exposed to moist air for a long time .it acquires green coating. Copper corrodes by oxidation. In this process of corrosion copper reacts with moisture and gases present in the Air (oxygen and carbon dioxide) to form Copper hydroxide and Copper Carbonate which is green in colour. This gives a green colour to the surface of copper metal. The mixture formed is basic in nature, which reacts with the acid (citric acid) present in lemon to form a Copper Citrate which is washed away with water. As a result, the green-coloured substance formed is removed from the surface of the vessel and the shining surface is seen.

- 1. Chemical formula of Copper Carbonate is
 - a. Cu (CO₃)₂
 - b. Cu₂CO₃
 - c. CuCO₃
 - d. Cu₂ (CO₃)₂
- 2. Copper vessel is tarnished due to
 - a. Reduction
 - b. Oxidation
 - c. Both Oxidation and Reduction
 - d. All of the above
- 3. Reaction between acid and base is called as
 - a. Oxidation
 - b. Reduction
 - c. Neutralisation
 - d. Corrosion
- 4. Copper Citrate is a/an
 - a. Acid
 - b. Base
 - c. Salt
 - d. Acid and salt both
- 5. An aqueous solution turns red litmus solution blue. Excess addition of which of the following solution would reverse the change?
 - a. Baking powder
 - b. Lime
 - c. Ammonium hydroxide solution
 - d. Hydrochloric acid

Question numbers 6 to 10 are Short Answer Type Of Questions: Answer the given questions in brief.

3X 5

6. What will be the action of the following substances on litmus paper?

Dry NaOH, Vinegar, Lemon juice, Carbonated soft drink, Curd, Soap solution





Ans
7. Which acid is use to be injected into the body by the sting of honey bee? Which chemical is use to neutralize its
effect and why?
Ans
8. What are indicators? Write three examples of natural and artificial indicators.
A
Ans
Ans
9. What is dilution? Is it an exothermic or endothermic reaction? What are the precautions to be taken while
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Subject: Science	Assessment Worksheet: 5
Class: X Name of Student	•••••
Acids, Base	s and Salts & Metals and Non-Metals
Darken the circle against the corr	rect option of the following questions(1-10) with pencil or 1X10
1. Fixed number of water moleculesa. Crystallization.b. Water of crystallization.c. Water of hydration.d. Dilution	s associated with one formula unit of a substance is called as OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
 2. Chemical formula of Gypsum is a. CaSO4. H2O. b. CaSO4.2H2O c. CaSO4.3H2O d. CaSO4.4H2O. 	O O O O
3. Colour of dehydrated Copper Sua. Black.b. Blue.c. Whited. Green	ollphate is O O O O O
 4. A chemical is used for disinfection chemical formula is a. CaOCl b. CaOCl2 c. CaOCl3 d. CaOCl4. 	ng drinking water to make it free from germ. Its O O O O
 5. Slaked lime is a. Calcium Oxide b. Calcium Oxychloride. c. Calcium Carbonate. d. Calcium Hydroxide. 	0 0 0 0 0
 6. An element reacts with oxygen to compound is also soluble in water. a. Calcium b. Carbon c. Silicon d. Iron 	to give a compound with a high melting point. This er. The element is likely to be- O O O O O O





7. The no a. b. c. d.	on — metal which can cor Graphite Iodine Silicon Diamond	duct electricity is- O O O O
8. The co a. b. c. d.	Acidic oxides Basic oxides. Amphoteric oxides. Neutral oxides.	th acids as well as bases to produce salts and water are called as O O O O
	etal which is liquid at roo Na Hg Mg Mn	m temperature is O O O O
10. The p a. b. c. d.	oroperty of metals used for Sonorous Malleability Ductility. Conductivity.	or making strings of musical instruments like Sitar is - O O O O



PHYSICS-CHEMISTRY-BIOLOGY Workshee

Subject:	Science	Worksheet:

Name of Student..... Class: 10

ASSESSMENT WORKSHEET (LIGHT)

Question 1 to 5 carry 1 marks each. Question 6 and 7 carry 2 marks each. Question 8 and 9 carry 3 marks each and question 10 carry 5 marks.

Read the following paragraph and answer the questions from 1 to 5

The spherical mirror forms different types of images when the object is placed at different locations. When the image is formed on screen, the image is real and when the image does not form on screen, the image is virtual. When the two reflected rays meet actually, the image is real and when they appear to meet, the image is virtual.

A concave mirror always forms a real and inverted image for different positions of the object. If the object is placed between the focus and pole. the image formed is virtual and erect.

A convex mirror always forms a virtual, erect and diminished image. The convex mirror is used as a rear view mirrors in automobiles because it can form small and erect image of an object.

- (1) When an object is placed at the centre of curvature of a concave mirror, the image formed is
 - (a) larger than the object (b) smaller than the object (c) same size as that of the object (d) highly enlarged
- (2) No matter how far you stand from a mirror, your image appears erect. The mirror is likely to be
 - (a) Plane (b) Concave (c) Convex (d) either plane or convex.
- (3) A convex mirror has wider field of view because
 - (a) The image formed is much smaller than the object. (b) The image formed is much closer to the mirror (c) both (a) and (b)

 - (d) none of these.
- (4) To get an image larger than the object, one can use
 - (a) Convex mirror (b) Concave mirror (c) either a convex mirror or a concave mirror (d) Plane mirror.
- (5) If the image is virtual, erect and enlarged for the object position between pole and focus of mirror. Mirror is
- (a) Plane (b) Concave (c) Convex (d) either plane or convex.
- (6) (i) Explain why a ray of light passing through the centre of curvature of a concave mirror, is reflected along the same path.
- (ii) The speed of light reduced to 0.5 times when it enters from air to another medium. Find the refractive index of medium.
- (7) The outer surface of a hollow sphere of aluminum of radius 50 cm is to be used as a mirror. What will be the focal length of this mirror? Which type of spherical mirror will it provide?
- (8) An object 2 cm in size is placed 30 cm in front of a concave mirror of focal length 15 cm. At what distance from the mirror should a screen be placed in order to obtain a sharp image? What will be the nature and the size of the image formed?
- (9) At what distance should an object be placed from a convex lens of focal length 18 cm to obtain an image at 24 cm from it on the other side. What will be the magnification produced in this case?
 - (10) Draw the ray diagram in each case to show the position of the image when the object is placed:
 - (i) at the centre of curvature of a concave mirror
 - (ii) between the pole P and focus F of a concave mirror
 - (iii) in front of a convex mirror
 - (iv) at 2F of a convex lens
 - (v) in front of a concave lens



Subject: Science

PHYSICS-CHEMISTRY-BIOLOGY

Na	 ASSESSMENT SHEET is of 10 Marks. It has been divided into TWO SECTIONS. SECTION-I contains Multiple Choice Questions (MCQ) of 1 mark each.
	• SECTION-II contains CASE STUDY QUESTIONS, which are Multiple Choice Questions (MCQ) of 1 mark each.
	SECTION-I
1.	A solution of substance X is used for white washing. Here X is:
	A.CaO
2.	Identify the substances that is oxidized and the substance that is reduced in the following reaction CuO $_{(s)}$ + H ₂ $_{(g)}$ > Cu $_{(s)}$. + H ₂ O $_{(1)}$
	A. H ₂ , CuO O B. H ₂ , H ₂ O O C. H ₂ , Cu O D. Cu, H ₂ O
3.	When diesel, in the presence of oxygen gas, burns inside the engine of a bus, carbon dioxide and water are produced. The temperature inside the engine becomes very high. Which of the following statements is correct?
	 A. The burning of diesel is an example of a physical change. B. Heat energy is taken out from the surroundings. C. Oxygen and diesel are the reactants in this process. D. This process is triggered by light energy.
4.	Rusting is a process which requires
	A. Air O B. Moisture O C. Heat O D. Both A and B
5.	Magnesium ribbon burns in air with a dazzling white flame. This is due to the formation of a white solid. This white solid dissolves in water and gives a solution which turns red litmus blue. Which type of reaction is performed in above process?
	A. Combination reaction OB. Decomposition reaction O

Assessment Worksheet:7



	•
C. Redox reaction	O
D. Oxidation reaction	
	SECTION-II
	CASE STUDY QUESTIONS
In 1909 Sorenson devised a swell as basic solutions could them. Sorensen linked the hynumbers 0 to 14 on pH scale farming, the best crops are upon to 14 on pH scale farming, the best crops are upon to 14 on pH scale farming, the best crops are upon to 15 or	carefully and answer the following questions: scale (known as pH scale) on which the strength of acid solutions as be represented by making use of the hydrogen ion concentrations in vdrogen ion concentrations of acid and base solutions to the simple. In everyday life, pH plays an important role on daily basis like in sually obtained with neutral or slightly acidic soil (pH 6.5 to 7.0), H of mouth is lower than 5.5, Bee-sting leaves an acid which causes
6. Which of the following su	abstance is added by farmers if the soil is acidic?
A. Common salt B. Slaked lime C. Vinegar D. Limestone	O O O O O
7. Rain is called an acid rain	n when the nH is:-
A. Above 8.5	0
B. Below 6.5	0
C. Below 5.6 D. Between 7-8	0
D. Between 7-8	
	acid is produced by the stomach that causes irritation and pain?
A. Hydrochloric acid	
B. Sulphuric acid C. Nitric acid.	0
	O O
D. Phosphoric acid	
9. Which of the following sa	alt is used to give relief on the stung area -
A. Washing soda.	0
B. Caustic soda	0
C. Baking soda	0
D. Bleaching powder	r O
10. Which of the following stomach?	type of medicines is used for the treatment of hyperacidity in the
A. Antiseptic	0
B. Antibiotic	0
C. Analgesic D. Antacid	0
D. Amacia	ullet



Subj	ect: Science	Assessi	ment Worksheet:8	
Clas		T is of 10 Ma to TWO SEC Multiple Cho CASE STUD	rks.	oice
			SECTION-I	
1.	The enzyme that breaks	down starch in	nto simpler form is known as	
	A. Amylase. B. Lipase C. Pepsin D. Trypsin	0 0 0		
2.	A.the amount of dissolved oxygen in the air. B.the amount of dissolved oxygen in the air. C.Aquatic organism	solved oxygen solved oxygen s need more ox	in water is fairly high as compared to the a in water is fairly low as compared to the arxygen to breath than terrestrial animals. leveloped organs for breathing.	mount of O
	A. Sieve tubes B. Capillaries C. Vena cava D. Valves	0 0 0	work of extremely narrow tubes are called: s of photosynthesis are sent to different part	ts of the
	A. Transpiration B. Respiration C. Translocation D. Excretion	0 0 0		
5.	An artificial kidney is a A. Diaphragm B. Dialysis C. ECG D. Electrolysis	device to remo O O O O	ove nitrogenous waste products from the blo	ood through-



PHYSICS-CHEMISTRY-BIOLOGY Workshee

SECTION-II

CASE STUDY QUESTIONS

Read the given paragraph carefully and answer the following questions:

You are familiar with a number of elements like Iron, Silver, Aluminium, Sulphur, Calcium, Potassium, Copper, Carbon, Nitrogen, Oxygen etc. They can be classified as metals and nonmetals on the basis of their chemical and physical properties. As your know that metals are always which good an be

are soft metals), Sonorous (ex	room temperature), Hard (except sodium and potassium which is a second sodium and Potassium), Lustrous (except Lead), good ity, malleable(can be converted into sheets), ductile (can be seen to sheets).
 6. Mercury is a metal which is A. solid B. liquid C. gas D. both solid and liquid 	at room temperature. O O O O O
7. The property of metals used for A. SonorousB. Malleability.C. DuctilityD. Conductivity	Or making bells is OOO OOO O
8. A metal X is soft and can be copen in air. The element is-A. Mg B. Na C. P D. Ca	cut with a knife. This is very reactive to air and cannot be kept O O O O O
9. Aluminium is used for making Aluminium are responsible for (i) Good conductor of heat A. (i) and (ii) B. (i) and (iii) C. (ii) and (iii) D. (i) and (iv)	g cooking utensils. Which of the following properties of or the same? (ii) sonorous (iii) Malleable (iv) hard 0 0 0 0
10.Nitrogen is a A. metal B. non-metal	O O O

0

C. metalloid

D. neither metal nor metal



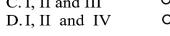
Subject: Science Assessment Worksheet: 9

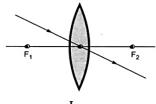
Class: X Name of Student.....

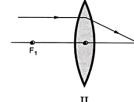
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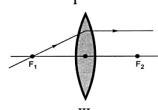
SECTION-I

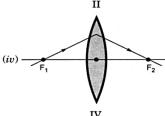
- 1. Give an example of a phenomenon where Tyndall effect can be observed.
 - A. Red colour of sky
 - B. Rainbow formation in the sky
 - C. Twinkling of stars
 - D. None of these
- 2. What is the cause of dispersion of white light on passing through a prism?
 - Different colours have different speeds in the prism. 0
 - В. Non parallel surfaces of the prism. 0
 - C. Both A and B 0
 - 0 Neither A nor B D.
- 3. The diagrams showing the correct path of the ray after passing through a lens are
 - A. I and II only 0 0 B. II and III only C. I, II and III 0
 - D.I, II and IV 0











4. Name the atmospheric phenomenon due to which the sun can be seen above the horizon about two minutes before actual sunrise.

0

0

0

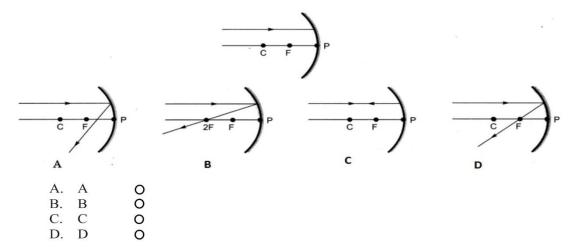
- A. Scattering of light.
- В. Internal reflection of light
- Atmospheric refraction C.
- Refractive Index D.





PHYSICS-CHEM Y_BIOLOGY

5. Which of the following ray diagrams is correct for the ray of light incident on a concave mirror as shown in figure?



The colour which bends the least while passing through a glass prism is-

Ŏ

- A. Violet.
- B. Red
- C. Blue
- D. Green

SECTION-II

CASE STUDY QUESTIONS

Read the given paragraph carefully and answer the following questions:

The refractive indices of four media A, B, C and D are given in the following table:

Medium	Α	В	c	D
Refractive Index	1.33	1.50	1.52	2.40

- 7. If light, travels from one medium to another, in which case the change in speed will be minimum-
 - A. When light moves between A and B.
- 0
- B. When light moves between B and C
- 0
- C. When light moves between C and D
- D. When light moves between A and D
- 0
- 8. If light, travels from one medium to another, in which case the change in speed will be maximum-
 - A. When light moves between A and B.
- 0
- B. When light moves between B and C
- 0
- C. When light moves between C and D
- 0



D. When light moves between A and D	
9. The refractive index of diamond is 2.42. What is the meaning of this statement speed of light?	in relation to
A. Speed of light in diamond is 2.42 times speed of light in free space.	0
B. Speed of light in diamond is 1/2.42 times speed of light in free space.	0
C. Speed of light in diamond is same as of speed of light in free space.	0
D. Speed of light in diamond is twice the speed of light in free space.	0
10.Light travels fastest in-	

A.	Water.	0
B.	Air	0
C.	Glass	0
D.	Diamond	0