The City School **PAF Chapter**



Comprehensive Worksheet December 2019

SCIENCE Class – 7

Candidate Name: _____

INVIGILATED BY

Index Number:				Section:						
Branch/Campus:							Date	:		
N	Maximum Marks: 100						Time	Allowe	d: 1 ho	ur 30 minute
TNI	CTDICTIONS.									
	STRUCTIONS: Write your name, index	numbe	r sectio	n brand	ch/camr	ous and	date cle	arly in	the snad	re provided
*	Write your name, index number, section, branch/campus and date clearly in the space provided. Read and follow the instructions of the given questions.									
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*	This paper consists of 0	9 printec	ı pages	meruan	ig the co	over pag	ge.			
		• • • • • • • • • • • • • • • • • • • •	For 1	Examin	er's us	e only	•••••	•••••	••••	
	Sections	Sect	tion – A	(60 M	arks)	Sect	tion – B	3 (40 M	arks)	Total
	Question	1	2	3	4	1	2	3	4	
	Max. Marks	20	10	10	10	10	15	09	16	100
	Marks Obtained									
							•	1	•	
		P	ercenta							
			Grade							

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_	hoose the correct answer:- [/20]						
1.	magnesium reacts with oxygen to form magnesium oxide. Which of the following statements is						
	true about this chemical reaction?						
	A. An element combines with another element to form a compound.						
	B. An element combines with a compound to form another compound.						
	C. A compound combines with another compound to form a new compound.						
	D. A compound is broken down into simpler substances.						
2.	A solution is formed when maximum amount of solute dissolves in a given						
	amount of solvent.						
	A. concentrated solution						
	B. saturated solution						
	C. dilute solution						
	D. super saturated solution						
3.	Which of the following is a compound?						
٥.	A. Hydrogen						
	B. Potassium						
	C. chalk						
	D. Chlorine						
	D. Chlorine						
4.	l. Solubility is the maximum amount of solute dissolved in of a solvent at particular						
	temperature.						
	A. 100 g						
	B. 1000 g						
	C. 10 g						
	D. 1 g						
5.	Strong acids are and they taste						
	A. Corrosive, sour						
	B. Litmus, bitter						
	C. Red, corrosive						
	D. Blue, sweet						
6.	Alkali turns						
	A. Blue litmus red						
	B. Red litmus blue						
	C. Blue litmus white						
	D. Red litmus green						
7.	A is made up of two or more elements and/or compounds which are not						
	chemically combined.						
	A. Compound						
	B. Element						
	C. Indicator						
	D. mixture						

8.	is used to se	parate components of a mixture.
	A. Evaporation	
	B. Distillation	
	C. Filtration	
	D. Chromatography	
9.	A solution in which water is a	a solvent is known as solution.
	A. Aqueous	
	B. Dilute	
	C. Saturated	
	D. Concentrated	
10.	Air consists of oxygen, carbo	n-dioxide and noble gases dissolved in gas
	A. Hydrogen	
	B. Nitrogen	
	C. Helium	
	D. Sulphurdioxide	
11.	control	s the movement of materials into and out of the living cell.
	A. Cell wall	
	B. Nucleus	
	C. Cytoplasm	
	D. Cell membrane	
12.	The largest human cell in ter	ms of volume is
	A. Red blood cell	
	B. Guard cell	
	C. Egg cell	
	D. Nerve cell	
13.	Brain is mainly composed of	and tissues.
	A. Muscle, epithelial	
	B. Nerve, connective	
	C. Epithelial, dermal	
	D. Ground, muscle	
14.	The pH value of water is	•
	A. 2	
	B. 7	
	C. 12	
	D. 14	
15.	Forces can be measured using	g•
	A. Spring balance	
	B. Measuring cylinder	
	C. Universal indicator	
	D. pH meter	

16. W	eight of an object is the _	acting on it.	
A.	Frictional force		
B.	Magnetic force		
C.	Gravitational force		
D.	Upthrust		
17. A	is a na	tural satellite which revolves around a planet.	
A.	Sun		
B.	Asteroid		
C.	Star		
D.	Moon		
18. W	hat is caused by the revol	ution of the Moon around the Earth?	
A.	Month		
B.	Day		
C.	Seasons		
D.	Lunar eclipse		
19. Gi	ving a moving car toy, a p	oush in the same direction of its motion, will cause:	
A.	The car to slow down		
B.	The car to move faster		
C.	The car to stop		
D.	The car to change its direc	etion	
20. W	hich planet has the longes	st year?	
A.	Jupiter		
B.	Mercury		
	Venus		
D.	Neptune		
Fill in	the blanks.		[/10]
a. S	olubilities of gases decreas	e when temperature	
b. B	Brass and steel are the exam	ples of mixtures called	
c. T	The asteroid belt lies between	en the planets and	
d. A	difference in boiling point	ts is used to separate two or more liquids by	
- Δ	call contai	ins many chloroplasts which contain chlorophyll.	
f. T	he stronger the force applie	ed, the the spring stretches.	
g. C	Cells that perform a same fu	nction are grouped together to form a	
h. V	inegar contains	acid.	

Q2.

i. A red blood cell contai	ns a red pigment called that	helps to transport
oxygen.		
j. In human beings,	system supports the body and gives it a shap	e.
Q3. Match column A with B an	d write the correct answer in column C.	[/10]
COLUMN A	COLUMN B	COLUMN C
1. An asteroid	a. Mercury	
2. A star	b. Non luminous object revolving around a sun	
3. A planet	c. Huge mass of hot gases	
4. A moon	d. Unmanned space crafts used to explore	
	celestial bodies	
5. Artificial satellite	e. Hubble space telescope	
6. Cause of day and night	f. Jupiter	
7. Cause of a month	g. Natural satellite revolves around a planet	
8. Largest planet	h. Revolution of moon around the Earth	
9. Planet without an	i. Huge rock revolving around astar	
atmosphere		
10. Space probes	j. Rotation of the Earth about its axis	
Q4a.Draw and label different p 1. Plant cell	arts of.	[/6]
2. Animal cell		

Q4b. Match each of the words, in the box, to the following statements.					[/4]
Vascular tissues	Palisa	de cell	ground tissues	Connective tiss	ues
1. Helps in phot	tosynthesis, physic	cal support a	nd food storage:		_
2. Xylem and ph	loem:				
3. Joins all parts	of an organism:		apter		
4. Contains chlo	roplast:		rep —		
		Ses	Ction B		
Q1a. Write two simi	ilarities and two	differences l	petween plant cell and a	n animal cell. [/2]
Q1b. How cytoplasm	n and vacuole ar	e different in	n plant and an animal co	ell? [/4]
Ole Emplein what a	and of the follows	:			~ [/4]
i. DNA	each of the follow	ıng worus n	nean by writing a senten	ice to snow its meanin	g. [/4]
ii. Cell divis	ion				

111	. Connective tissue		
iv	. Unicellular organism	PAF	
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Q2a.V	Write down the names of the	e following elements given their chemical symbols.	[/5]
i.	N:	_ Section	
ii.	S:	<u></u>	
iii.	He:		
iv.	Ca:		
v.	Zn:		
Q2b.	Write down the names of ele	ements involved in the formation of the following con	npounds.[/5]
i.	polythene:		•
ii.	sugar :		
iii.	Chalk:		
iv.	Dry ice:		
v.	sand:		
Q2c. '	Which method would you us	se to separate each of the following?	[/5]
i.	Separate food colourings in	n chocolate candies	
ii.	Separate diesel from crude	e oil	
iii.	Iron fillings from Sulphur		
iv.	Oxygen from air		
v.	Separate salt from sand		

i.	Write word equation for the above chemical reaction.	[/1]
ii.	Is nitrogen dioxide an element or a compound? Explain.	[/2]
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)3b.	The following word equations represents chemical reactions:	
	a. Iron + Sulphur iron sulphide	
	b. Ammonia + hydrogen chloride — ammonium chl	oride
	c. copper carbonate heatcopper oxide + carbondioxide	
i.	Which word equation shows the formation of a compound f	rom: [/2]
	a. two compounds:	_
	b. two elements:	
ii.	. Which word equation above shows breaking of a compound	into simpler substance.[/1
iii	i. Write the word equation of the following:	[/3]
	a. Dilute nitic acid + calcium carbonate ———	
	b. Dilute hydrochloric acid + sodium hydroxide	
)4a.	Answer the following questions	
i.	Write down at least three advantages of friction.	[/3]
ii.	. An object that floats in water weighs 20 N in air.	[/3]
	a. What is the weight of the object in water?	
	b. What is the Upthrust acting on the object in water?	

Q4d. Why	y do s	tars appear to move?	[/1]
Q4c. Why	y do E	Carth support any form of life?	[/1]
	iii.	Does this phenomenon occur at night or in the day?	
	ii.	What phase is the Earth at during this phenomenon?	
	i.	What phenomenon is illustrated by the diagram?	
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Q4b. Stud	dy the	diagram below.	[/3]
c.		v and label arrows to represent the forces acting on the	
b.		t can you say about the size of the forces?	www.shutterstock.com - 17738443
a.	Nam	the the forces acting on the parachute.	naterstack
iii. A ı	man is	s coming down with a parachute.	[/3]

c. What is the weight of the water displaced by the object?

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