

# யாழ்ப்பாணக் கல்வி வலயம்

# Science - Unit Exam - 2020

Grade - 9 Unit - 3 Time: 40 minutes

Part - I

		Tart - I				
*	Underline the correct an	swer				
01.	An example for element i	S				
	(1) Sodium chloride		(2)	Copper sulphate		
	(3) Glucose		(4)	Silver		
02.	The symbol of the chlorin	ne element is				
	(1) Ca	(2) Mg	(3)	Al	(4)	Cl
03.	The particles which make	e matter and are not visible to	our 1	naked eye or even by the p	owe	rful
	microscopes are called?					
	(1) Mixtures	(2) Atoms	(3)	Compounds	(4)	Elements
04.	"Almost the entire mass of	of the atom is concentrated at	a cer	ntral core. is positively cha	ırged	l and is called
	the nucleus. Who discove	ered this at first?				
	(1) John Dalton		(2)	Earnest Rutherford		
	(3) Louis Pasteur		(4)	Stanley Miller		
05.	Which elements contribut	te to form this compound "Cu	SO <sub>4</sub>	??		
	(1) Cu,S,O	(2) O,H,C	(3)	Cl,C,O	(4)	H,N,Cu
06.	The suitable method for s	separating salt from sea water	is			
	(1) Evaporation	(2) Winnowing	(3)	Sifting	(4)	Panning
07.	Which of the following is	s an example for heterogeneou	s mi	xture?		
	(1) Salt solution		(2)	Sugar solution		
	(3) Ice cream		(4)	Sea water		
08.	The number of protons in	the nucleus of an atom is call	ed			
	(1) Atomic number	(2) Mass number	(3)	Isotopes	(4)	Nucleons
09.	Which of the following is	s the suitable mixture for the c	onst	ituents diesel, petrol, kero	sene	and tar?
	(1) Air	(2) Sea water	(3)	Cake mixture	(4)	Crude oil
10.	Which molecule is illustra	ated by this shown figure				(II)
	(1) Ammonia		(2)	Methane		
	(3) Hydrogen chloride		(4)	Water		$\left\langle \begin{array}{c} N \end{array} \right\rangle$
						(H)—(H)

**(30 Marks)** 

## **Structure Questions**

- 1) (a) Compounds are formed by the combination of two or more elements in a fixed ratio.
  - 01. Identify the following molecules and fill the table

Representation of the molecules	Elements containing	Name of the compound
(OC)(O)		
HH		
0 0		
(H) Cl		
H H		

**(10 Marks)** 

### (b) Match the following

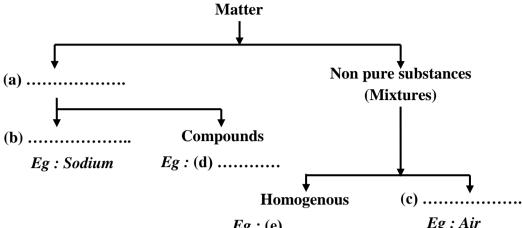
01. Natrium	`u
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02. Cupurum Pb

03. Plumbum Au

04. Aurum Na (8 Marks)

### 2) (a) Fill the following blanks



	Eg:	(e)	Eg: Air	
01. Identify the letters	from a to e?			
A :		B:		
C:		D:		
E :				(5 Marks)
02. Give 5 examples for	or the mixtures that are u	used in your day to	day life?	
				(3 Marks)
03. Write the suitable p	physical methods for sep	parating the constitu	ents from the given n	nixtures?
a) Rice and stone	e :			
b) Sterile seeds a	nd seed paddy :.			
c) Crude oil	:			
d) Cane sugar syn	rup :			
				(4 Marks)
Basic building units o	f matter is "Atom"			
01. Who used the term	atom for the smallest, i	ndivisible particle a	t first?	
				(3 Marks)

<b>(b)</b>	Basic building units of matter is "Atom"			
	01 Who used the term stom for the smallest indivisible	0 <b>n</b> c		

02. "The pure substances with specific properties which cannot be further divided by either physical or chemical methods" How is this substance called?

......(3 Marks)

03. Give the subatomic particles of atom?

.....(6 Marks)

04. Label where the above mentioned sub atomic particles located in nucleus?



(3 Marks)

A standard method is used to represent an element  01. What is the atomic number of this Mg atom?				24	Mσ
2. What is the m		$_{12}^{24}Mg$			
03. Find the number of Protons?					
04. Find the number of electrons?					
05. Find the number of neutrons?					
					(5 Mark
ill the following	g table				
1. Fill the follow	ving table				
Element	Number of proton	Number of electron	Number of neutron	Atomic .No	Mass. No
С		6			12
N	7		7		
Ne	10				20
F				9	19
О	8		8		
	3. Find the number of the following states and the following states are considered as a second state of the	2. What is the mass number of this No. 18. Find the number of Protons?  3. Find the number of electrons?  5. Find the number of neutrons?  6. Fill the following table  7. Sumber of proton  8. Prind the number of neutrons?  9. Fill the following table  9. Fill the following table  1. Fill the following table  1. Number of proton  1. Number of proton  1. The proton  2. The proton  3. Find the number of neutrons?  4. Fill the following table  5. Fill the following table  6. Fill the following table  7. Number of proton  1. The proton  1. The proton is not proton in the proton in the proton is not proton in the proton in the proton is not proton in the proton in the proton in the proton is not proton in the pro	2. What is the mass number of this Mg atom? 3. Find the number of Protons? 4. Find the number of electrons? 5. Find the number of neutrons? 6. Fill the following table 6. Fill the following table 7. C	2. What is the mass number of this Mg atom? 3. Find the number of Protons? 4. Find the number of electrons? 5. Find the number of neutrons? 6. Fill the following table 7. Fill the following table 8. Fill the following table 9. C	Find the number of Protons?  Find the number of electrons?  Find the number of neutrons?  Number of proton electron neutron Atomic .No  C  6  N  7  Ne  10  F  9