Ans: "Compunds that contains oppositely charged ions help together by ionic bonds are called ionic compounds"

Example: Sodium Chloride (NaCI) Q16: Define Covalent Compounds? Give examples.

Ans: "Compounds formed by the sharing of electrons between different atoms are called covalent compounds"

Example: H2O, HCI, CH4 etc SECTION "C"(DETAILED-ANSWER QUESTIONS) 18Mark Note: Answer any THREE questions from this section. Each

question carries 06 Marks

Q17. Explain any five branches of chemistry.

Ans. Physical chemistry: L

Is the branch of chemistry which deals with relationship between composition and physical properties of matter wi the changes in them. It deals with the laws and principle governing the combination of atoms and molecules chemical reactions.

Organic chemistry is the branch of chemistry which deals w hydrocarbons and their derivatives. Organic chemistry is study of structure, properties, composition, reactions preparation of carbon-containing compounds, which included the state of the state o hydrocarbons except oxides, carbonates, bicarbonates cynites. The gasoline, plastics, detergents, died in additives, natural gas, and medicines are studied in organic chemisters organic chemistry.

Inorganic chemistry:

Inorganic chemistry is the branch of Chemistry which de with the study of all with the study of all elements and their compound hydrocarbons. There hydrocarbons. These compounds are generally obtained nonliving organisms. It is applicable in all areas of chemical industry. Such as glass, cement, ceramics and metallurgy.

Biochemistry:

Biochemistry is the branch of Chemistry which deals with the compounds of living organisms. plants and animals and their metabolism and synthesis in the living body such as carbohydrates, proteins and fats. Biochemistry helps us to understand how living things obtain energy from food. It tells that how disorder or deficiency of these biomolecules causes diseases. This branch is useful in medicine, agriculture and food science.

Nuclear Chemistry:

Nuclear chemistry is the branch of Chemistry which deals with the radioactivity, nuclear processes and properties. Radioactive elements are widely used in medicine as diagnostic tools and as a means of treatment, especially for through nuclear power reactors.

Calculate the molecular mass of HNO3

```
Alomic mass of H = 1 a.m.u

Alomic mass of N = 14 a.m.u

Molecular mass of O = 16 a.m.u

Secular mass = 1(At. Mass of H) +1(At. Mass of N) +3(At.

= 1 + 14 +3(16) = 1 + 14 + 48
```

ALKALI VERSUS ALKALINE

The term Alkali is used to name the group 1 elements of the periodic table

Alkali metals are soft

Have one valence electron

Form +lcations

Have a lower ionizing energy

The term Alkaline is used to name group 2 elements of the periodic table

Alkaline earth metals are hard

Have two valence electrons

Form +2cations

Have a higher ionizing energy

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TIME ALLOWED: 02 HOUR 35 MINE

CHEMISTRY-I

MARKS: 36	2 HOUR 35 MINUTES	THE NECOTIED
GLISH VERSION	ENGL	SECTION -
24	ANSWER ANY EIGHT (08) OF THE FOLLOWING CUSTONIA	NOTE:
	ALL QUESTIONS CARRY EQUAL MARKS.	
	Define Chemistry and enlist the names of branches?	Q. No. 02:
ent	Define following terms with examples (a) Molecula (b) Molecula	Q. No. 03: Q. No. 04:
	What are Limitations of Bohr's atomic model? How many protons, electrons and Neutrons are present in the followings	Q. No. 05:
	$U_{92}^{235} - Cl_{17}^{37} - Fe_{52}^{56}$	
	Determine the demarcation of periodic table into is not a fit block-	Q. No. 05: Q. No. 07:
is reduced to	The pressure of a sample of a gas is 3atm and volume is 5 liters if the pressure is 2atm, what will be the new volume	Q. NO. 07;
	Convert the following units	Q. No. 08:
	a) 100 C° to K (b) 170 K to C°	
	Balance the following equations.	Q. NO. 09:
	(i) NH3 + O2 No + H2o	
HEH 14		
	(iii) Ca +H2O Ca(OH)2 + H2	7
	(iv) Co + O2 → Co2	Q.NO. 10:
	Differentiate the properties of polar and Non polar compounds	Q.NO. 11:
	Write names and symbols of Alkali metals.	
	Why ionic compounds are solid?	Q.NO. 12:
	Distinguish between periods and groups	Q.NO. 13:
	SECTION - C	
MONE.	ANSWER ANY TWO (02) OF THE FOLLOWING QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.	NOTE:
	Define lonic bond and discuss formation of NaCI:	Q. No. 14:
	Define Evaporation in Liquids and explain factors affects evaporation.	Q. No. 15:
	Describe dry cell with diagram	Q. No. 16:
	· · · · · · · · · · · · · · · · · · ·	URDU VERS
ند دوقم		UNDU VENS
لوك مصاحدال	ویل شرے آند (08) موالات کے جوابات تعیں۔ قام موالات کے قبر مساوی اللہ	24
	ركياب اشائوں كے مام تور كري	
	روی کی تعریف بیان کریں۔ (اف) مالکیول (ب) مول (ج) مضر	
	ه اینی تقریب کی خاص کیفیات بیان کریں۔	
ل نيره: مندرجه ذيل	وفيل على كتي يروجان واليكثر الن اور فيو قران موجو وجوح الله	
Fess	$U_{92}^{235} - Cl_{17}^{37} - H$	
	العدى بدول كور بديد ق	As and
	بنادے اور دایو کس ہے۔ جس کادبا 3atms ہے۔ اگر اس کادبا 2atms کردیاجا نے تو یا جم معلوم کریں۔	
رانبران مندرج وفي	ولي م المركب الم	