9181 CHEMISTRY — 9th

NOTE: Attempt all questions of Section-A by filling the corresponding bubble on the MCQ ANSWER SHEET and return it to the Superintendent within given time, even if you have not attempted any question.

SECTION-A

Tim	e: 20 Minutes Marks: 12
1.	A pure substance that cannot be broken down into simplest substance by physical or chemical means is called
2.	There are isotopes of hydrogen. A) 2, 3, C) 4, D) 5
3.	K-shell can accommodate maximum number of electrons. 2, B) 3, C) 8, D) 18
4.	Number of periods in periodic table are seven, B) eight, C) ten, D) eighteen
5.	An element has 8 electrons in its valence shell, it is
6.	What geometrical shape does NH ₃ have? A) linear, B) triangular, C) tetrahedral, pyramidal
7.	Diamond is the allotropic form of
8.	The increase of temperature of the gases decreases
9.	Water droplets in air is an example of solution of
10.	Which one of the following is a strong electrolyte? A) H ₂ CO ₃ , B) NH ₄ OH, HCl, D) CH ₃ COOH
11.	Ionic compounds conduct electricity when they are in the state. A) solid, B) crystalline solid, C) anhydrous, molten
12.	. At room temperature, metals exist as A) gas and liquid, B) gas and solid, solid and liquid, D) all of these

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Time: 2 Hours 40 Minutes

SECTION-B

Attempt any eight of the following. All carry equal marks.

Differentiate between homogeneous and heterogeneous mixture.

How many molecules are there in 40.5g of HBr?

State main points of Rutherford's atomic model. ~

Give the uses of isotopes. ~

What do you mean by ionization energy? ~

What is ionic bond?

vii. Give any four properties of metals.

viii. State Boyle's law.

ix. What is allotropy?

x. What are colloidal solutions?

xi. Define oxidation and reduction.

SECTION-C

Marks: 21

Marks: 32

NOTE: Attempt any three of the following questions. All questions carry equal marks.

2. State and explain the main branches of chemistry.

What do you mean by the term mole and Avogadro's number? Give examples. ii.

3. What do you understand by periodicity of properties? Discuss periodicity of atomic sizes of the elements in periodic table.

ii. Define covalent bond and explain its types.

4. What are the typical properties of gases?

ii. What are the factors which affect solubility?

5. i. What is weak and strong electrolyte?

Differentiate between oxidizing and reducing agents. Give examples.

ونت: 2 كفظ 40 منك

المبر: 32

مندرد ذیل میں ہے صرف آٹھ اجزاء حل کریں۔ تمام اجزاء کے نمبر برابر ہیں۔ i. کے فیزی اورکٹیر فیزی آمیزہ میں کیافرق ہے؟
iii. رتھر فورڈ کے ایٹی نظریے کے اہم نکات بیان کریں۔
iv. ہم جاء کے استعالات کھیں۔
vi کی انڈ کے کہتے ہیں؟
vi کی انڈ کے کہتے ہیں؟ vii. دهاتوں کے کوئی بی چارا ہم خصوصیات کصیں۔ viii. بوائل کا قانون بیان کریں۔ ix. بېروپىت سىكيامراد سې؟

تبر: 21

نوف: مندرجه ذیل میں سے صرف تین سوالات مل كريں - تمام سوالات كفير برابريں -

2. i. کیمیا کی مختلف شاخیس کون کون میں ؟ بیان کریں۔ ii. مول اورآ و گاڈرونمبرے کیامرادہے؟ مثالیں دیں۔ 3. دوری خصوصیت پر بحث کریں۔ i. .3. دوری خصوصیت پر بحث کریں۔

ii. كوويلنك باندكى تعريف كرين اوراس كى اقسام لكوين-

ال وديت بالدن تربيت تريادون ن الما من المان الم