

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION SUKKUR SINDH
S.S.C. PART - I ANNUAL EXAMINATION 2015
CHEMISTRY

Time allowed
2.40 Hours

Max: Marks
68

SECTION - A

(SHORT ANSWER QUESTIONS)

Marks 40

NOTE:- ATTEMPT ANY EIGHT (08) QUESTIONS. EACH QUESTION CARRIES (05) MARKS.

- Q. 1 How is the Chlorine gas prepared in the laboratory?
 Q. 2 Show with example that sulphuric acid acts as oxidizing agent?
 Q. 3 What is "Potable water" write four main characteristics of "Potable water".
 Q. 4 How ethene is prepared from ethyl alcohol?
 Q. 5 What do you mean by "Saponification"?
 Q. 6 Write a note on Heavy Water.
 Q. 7 State and explain Faraday's First Law of Electrolysis.
 Q. 8 Define the term "Neutralization".
 Q. 9 Explain Lothar Meyer's Classification.
 Q. 10 Why does in metal extraction often slag is produced?
 Q. 11 Explain "Electronegativity"
 Q. 12 Write the Chemical name of the following Compounds.

- i) Na_2SiO_3 ii) SiO_2 iii) $\text{C}_6\text{H}_5\text{NO}_2$ iv) HClO v) $\text{C}_4\text{H}_9\text{Cl}$

SECTION - B

(LONG ANSWER QUESTIONS)

MARKS: 28

NOTE: ATTEMPT ANY TWO (02) QUESTIONS. QUESTION NO. FIFTEEN (15) IS COMPULSORY.

- Q.13 (a) Write the Industrial Preparation of Ammonia by Haber-Bosch Process.
 (b) Explain the main features of Bohr's theory.
 Q.14 What are polishes? Give in details about the composition and preparations of different types of polishes.
 Q.15 Balance the following chemical equations and mention the type of reactions,
 i) $\text{CH}_4 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$ (ii) $\text{Cl}_2 + \text{KBr} \rightarrow \dots\dots\dots \text{KCl} + \text{Br}_2$
 iii) $\text{KClO}_3 \xrightarrow{\text{Heat}} \text{KCl} + \text{O}_2$ (iv) $\text{NaHCO}_3 \xrightarrow{\text{Heat}} \text{Na}_2\text{CO}_3 + \text{H}_2\text{O} + \text{CO}_2$
 v) $\text{PCl}_3 + \text{H}_2\text{O} \rightarrow \text{H}_3\text{PO}_3 + \text{HCl}$ (vi) $\text{NH}_4\text{NO}_3 \rightarrow \text{N}_2 + \text{H}_2\text{O}$
 vii) $\text{Ca} + \text{H}_2\text{O} \rightarrow \text{Ca}(\text{OH})_2 + \text{H}_2$

(Sindhi Version)

مارڪون 40

(مختصر جوابن وارا سوال)

حصو "الف"

نوٽ: ڪي به اٺ (08) سوال ڪريو. هر سوال تي پنج (5) مارڪون رکيل آهن.

- سوال 1. ڪلورين گئس کي ليباريٽريءَ ۾ ڪيئن تيار ڪيو آهي؟
 سوال 2. مثال ڏئي سمجهايو ته سلفيورڪ ايسڊ آڪسائيڊنگ ايجنٽ طور استعمال ٿيندو آهي.
 سوال 3. "پائبل" وارو پاڻي (Potable water) ڇا هوندو آهي؟ انهيءَ جون ڪي به چار خاصيتون بيان ڪريو.
 سوال 4. ايٿين (Ethene) کي ابتدائي الڪوحل مان ڪيئن تيار ڪيو آهي؟
 سوال 5. توهان کي سٽپونيفڪيشن (Saponification) بابت ڪهڙي ڄاڻ آهي؟
 سوال 6. ڳري پاڻي (Heavy Water) تي نوٽ لکيو.
 سوال 7. فيريڊي جو برق پاشيدگيءَ وارو پهريون قاعدو بيان ڪريو.
 سوال 8. تعديلي عمل (Neutralization) مان ڇا مراد آهي؟
 سوال 9. لوٿر ميئر (Luther Mayer) واري درجو بندي واضح ڪريو.
 سوال 10. ڌاتن کي سوڌڻ (Extraction) جي دوران سليڪ (Slag) ڇو پيدا ٿيندا آهن؟
 سوال 11. برقي منفيت (Electronegativity) جي وضاحت ڪريو.
 سوال 12. هيٺ ڏنل مرڪبن جا ڪيميائي نالا لکو
 i) Na_2SiO_3 ii) SiO_2 iii) $\text{C}_6\text{H}_5\text{NO}_2$ iv) HClO v) $\text{C}_4\text{H}_9\text{Cl}$