

## SSC PART-I (9th CLASS)

کیمیئری (نئو سکیم) گروپ - دوسرا (سیشن 2015-2017) (Chemistry (New Scheme) GROUP-II (2015-2017)

TIME ALLOWED: 15 Minutes

## OBJECTIVE حصہ معروضی

وقت = 15 منٹ

MAXIMUM MARKS: 12

کل نمبر = 12

نوت - ہر سوال کے چار گزینہ جوابات A, B, C اور D دیئے گئے ہیں۔ جواب کا پانی پر ہر سوال کے سامنے دیئے گئے دائرے میں سے درست جواب کے مطابق مختلف دائے کو مار کر یا پین سے بھر دیجئے۔ ایک سے زیادہ دائے کو پر کرنے یا کاٹ کر پر کرنے کی صورت میں مذکورہ جواب غلط تصور ہو گا۔ دائے کو پر کرنے کی صورت میں کوئی نمبر نہیں دیا جائے گا۔ اس سوالیہ پر چھپ سوالات ہر جملہ پر کریں۔

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number. On bubble sheet, use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve questions on this sheet of OBJECTIVE PAPER.

## Q.No.1

(1) Which one of the following molecules is not triatomic?

(A)  $O_3$ (B)  $H_2O$ (C)  $CO_2$ (D)  $H_2$ 

(2) Deuterium is used to make:-

(A) Heavy water (B) Light water

لائٹ وائر ہارڈ وائر (C) Soft water (D) Hard water

(3) Which one of the following Halogens has lowest Electronegativity?

(A) Fluorine

(B) Chlorine

(C) Bromine

(D) Iodine

(4) Fourth and fifth period of the long form of periodic table are called:-

(A) Short periods

(B) Normal periods

(C) Long periods

(D) Very long periods

(5) Which one is a good example of Triple Covalent Bond?

(A)  $N_2$ (B)  $O_2$ (C)  $H_2$ (D)  $Cl_2$ 

(6) Which one of the following is an electron deficient molecule?

(A)  $NH_3$ (B)  $N_2$ (C)  $BF_3$ (D)  $O_2$ 

(7) Which one of the following gases diffuses the fastest?

(A) Hydrogen

(B) Helium

(C) Fluorine

(D) Chlorine

(8) A good example of Suspension is:-

(A) Tooth paste

(B) Milk

(C) Chalk in water

(D) Blood

(9) Which one of the following solutions contains more water?

(A) 2 M

(B) 1 M

(C) 0.5 M

(D) 0.25 M

(10) The formula of rust is:-

(A)  $Fe_2O_3 \cdot nH_2O$ (B)  $Fe_2O_3$ (C)  $Fe(OH)_3$ (D)  $Fe(OH)_3 \cdot nH_2O$ (11) Oxidation number of "Cl" in  $KClO_3$  is:-

(A) +1

(B) +2

(C) +4

(D) +5

## SSC PART-I (9th CLASS)

کیمیئری (نیو سکیم) گروپ - دوسرا (سیشن 2015-2017) CHEMISTRY (NEW SCHEME) GROUP-II (2015-2017)

TIME ALLOWED: 1.45 Hours

## SUBJECTIVE حصہ انشائیہ

MAXIMUM MARKS: 48

NOTE: - Write same question number and its part number on answer book, as given in the question paper.

## SECTION-I حصہ اول

## 2. Attempt any five parts.

10 = 2 x 5

- (i) Write any two applications of Inorganic Chemistry.
- (ii) Differentiate between Homogeneous mixtures and Heterogeneous mixtures.
- (iii) Define Formula Unit and Formula Mass.
- (iv) Describe two defects in Rutherford's model.
- (v) U-235 fission produces two atoms of which elements?
- (vi) Define Atomic Radius. Also write atomic radius of Carbon atom.
- (vii) Describe any two important features of long form of periodic table.
- (viii) What is Shielding Effect?

## 3. Attempt any five parts.

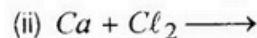
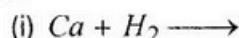
10 = 2 x 5

- (i) What is the difference between Lone pair and Bond pair of electrons?
- (ii) What type of Covalent bond is formed in Nitrogen molecules?
- (iii) Why  $HCl$  has dipole-dipole forces of attraction?
- (iv) Define the term Allotropy with examples.
- (v) Is the Boyle's law applicable to liquids? Give reason.
- (vi) Why does the suspension not form a Homogeneous Mixture?
- (vii) Give two characteristics of Colloid.
- (viii) Define Brine.

## 4. Attempt any five parts.

10 = 2 x 5

- (i) What is meant by Redox Reaction?
- (ii) Define Oxidizing agent with one example.
- (iii) Write down two examples of Electrolytic Cells.
- (iv) What is meant by Corrosion?
- (v) Write down the names of two very reactive metals.
- (vi) Give any two uses of Silver.
- (vii) Write down any two physical properties of non-metals.
- (viii) Complete the following chemical equations:-



## SECTION-II حصہ دوم

## NOTE: - Attempt any two questions.

18 = 9 x 2

5.(A) Give the applications of Isotopes in the fields of radiotherapy and medicines.

5

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(B) Define Atomic number and Mass number with examples.

4

6.(A) What is meant by Covalent Bond? Explain its three types with examples.

5

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(B) Define Charles's Law and give its experimental verification.

4

7.(A) Define Electroplating and describe electroplating of Zinc and Tin.

5

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نوت۔ کوئی سے پانچ اجزاء کے جوابات تحریر کیجیے۔

5-(الف) ریڈوکس ریاکشن کے شعبوں میں آئووپس کے استعمالات بیان کریں۔

(ب) مثالوں سے اٹاک نمبر اور ماس نمبر کی تعریف لکھیں۔

6-(الف) کوئی بانٹ بانٹ کیا مراد ہے؟ اس کی تین اقسام کی وضاحت مثالوں سے کریں۔

(ب) چارلس کا قانون بیان کریں اور اس کی تجرباتی تصدیق کریں۔

7-(الف) ایکٹر و پلینگ کی تعریف کیجیے نیز زکر اور ٹن کی ایکٹر و پلینگ بیان کیجیے۔