

SEPTEMBER 2023
EBS 132
GENERAL CHEMISTRY I
45 MINUTES

Candidate's Index Number
Signature:

UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
FIRST YEAR, SECOND SEMESTER MID-SEMESTER QUIZ, SEPTEMBER 2023

26TH SEPTEMBER 2023

GENERAL CHEMISTRY I

5:30 PM – 6:15 PM

Answer ALL the questions.
[20 MARKS]

For items 1 to 15, each stem is followed by four options lettered A to D. Read each item carefully and circle the letter of the correct or best option.

1. What type of bond is between the atoms of chlorine in chlorine gas? bond
A. Covalent
B. Intermolecular
C. Ionic
D. Metallic
2. Which of the following represents the chemical formula of aluminium oxide?
A. Al₂O
B. Al₂O₃
C. Al₃O₂
D. AlO₂
3. What is the arrangement of electrons in the shells of an aluminium ion ${}_{13}^{27}\text{Al}^{3+}$?
A. 2, 8, 3
B. 2, 4, 6
C. 2, 1
D. 2, 8
4. What is the maximum number of electrons in the M-shell of an atom?
A. 2
B. 8
C. 18
D. 24

b. Chlorine

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18. How will you represent an element X with atomic number of 11 and mass number of 23?

(1 mark)

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