

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, BANNU

Higher Secondary School Certificate (H.S.S.C.) Examination — 2019

CHEMISTRY — PART-I

Class: 11th (Inter Part-I)	Paper ref: BN-XI-XIX-I	Year: 2019	Medium: English
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Objective section only. Section-A (Version-B) of this paper is reproduced below; the written sections (Section-B and Section-C) were not available.

Note: There are three sections of this paper. Read the instruction carefully and attempt accordingly.

Time: 20 Minutes

SECTION "A" (VERSION-B)

Marks: 18

Q.No.1: Attempt all questions of section "A" by filling the corresponding bubble on the MCQs ANSWER SHEET. Cutting, erasing and over writing will be awarded no marks.

- (i). The rate of reaction _____ as reaction proceeds.
- ☐ Remains same ☐ Increases
- ☐ May decrease or increase ☐ Decreases
- (ii). Surface tension has _____ unit.
- ☐ Nm^{-1} ☐ Nm^{-2}
- ☐ Poise ☐ $Kg\ m^{-1}s^{-1}$
- (iii). The splitting of spectral lines in the presence of magnetic field is called ____.
- ☐ Stark effect ☐ Zeeman effect
- ☐ Photoelectric effect ☐ Compton effect
- (iv). Maximum number of electrons in a subshell with $l = 2$ and $n = 3$ is
- ☐ 2 ☐ 3 ☐ 6 ☐ 10
- (v). Enthalpy is heat content of a system at constant ____.
- ☐ Pressure ☐ Temperature ☐ Volume ☐ Heat
- (vi). In ethyne for the formation of π (π) bonds _____ orbitals are involved.
- ☐ sp hybridized ☐ sp^2 hybridized
- ☐ sp^3 hybridized ☐ Unhybridized (p) orbitals
- (vii). $K_p = K_c$, when Δn is equal to ____.
- ☐ Zero ☐ +1 ☐ -1 ☐ 2
- (viii). Evaporation of liquid causes ____.
- ☐ Thermal expansion ☐ Liquefaction
- ☐ Cooling ☐ All of these
- (ix). Limiting reactant is one which ____.
- ☐ Produces more product ☐ Consumes earlier
- ☐ Not effect the yield ☐ Increase the yield
- (x). Freezing point of solution as compare to the pure solvent is ____.
- ☐ Higher ☐ Lower ☐ Variable ☐ Remain the same
- (xi). A large value of K_c means that at equilibrium ____.
- ☐ Less reactants and more products ☐ More reactants and less products
- ☐ Same amount ☐ None
- (xii). In BF_3 the bond angles are ____.
- ☐ 180° ☐ 87.5°
- ☐ 120° ☐ 109.5°
- (xiii). In SI units, the value of 'R' is ____.
- ☐ $8.3413\ Nm^{-1}mol^{-1}$ ☐ $8.3143\ Nm^{-1}mol^{-1}$
- ☐ $0.0821\ dm^3\ atm^{-1}mol^{-1}$ ☐ $62.4\ dm^3\ torr\ mol^{-1}\ K^{-1}$
- (xiv). Which one of the following is paramagnetic?
- ☐ N_2 ☐ O_2^{+2}
- ☐ O_2^{-2} ☐ O_2
- (xv). If 10% urea is present in NaCl as impurity, its crystal will become ____.
- ☐ Cubic ☐ Oval ☐ Round ☐ Needle like
- (xvi). Example of a buffer solution is ____.
- ☐ H_2SO_4 / Na_2SO_4 ☐ $NaOH/NaCl$
- ☐ CH_3COOH/CH_3COONa ☐ $HCl/NaCl$
- (xvii). _____ has no units.
- ☐ Molarity ☐ Molality ☐ Mole fraction ☐ None of these
- (xviii). Oxidation take place at ____.
- ☐ Anode ☐ Cathode
- ☐ Negative electrode ☐ None of these

Notes on this transcription

- This is a **typeset transcription** of the original paper, not a photograph of it. Question wording, spelling and numbering are reproduced exactly as printed, including the board's own errors ("NaCl", "Not effect the yield", "Oxidation take place").
- No answer key is included.** The source sheet is ticked by hand; every option here is reproduced unmarked so the paper can be attempted.
- The original prints the four choices inline as (A) to (D) on the question line; they are set here as a circled option grid for legibility. Question numbering (i) to (xviii) is as printed.
- Q.(xii)** sits under the source watermark and reads as BF_3 ; a cleaner scan would confirm it.