

Seat No.	
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**B.Sc.(Semester – IV) (CBCS) Examination Oct/Nov-2019
Geo-Chemistry (PAPER – III)
PRINCIPLES OF GEOCHEMISTRY**

Day & Date: Thursday, 24-10-2019
Time: 11:30 AM To 02:00 PM

Max. Marks: 70

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat diagrams wherever necessary.

Q.1 Fill in the blanks by choosing the correct alternatives given below: 14

- 1) Chemical equilibrium is _____ in nature.
 - a) static
 - b) dynamic
 - c) electric
 - d) mechanic
- 2) For _____ reaction, chemical equilibrium is absent.
 - a) irreversible
 - b) reversible
 - c) chain
 - d) fast
- 3) In conjugate acid base pair, there is a difference of _____ proton.
 - a) zero
 - b) one
 - c) two
 - d) three
- 4) $p^H + p^{OH} = \text{_____}$ for water.
 - a) 11
 - b) 12
 - c) 13
 - d) 14
- 5) Bacteria is a _____ water pollutant.
 - a) organic
 - b) inorganic
 - c) biological
 - d) nuclear
- 6) As per ISI rule, pH of potable water is _____.
 - a) 3 to 4
 - b) 5 to 6
 - c) 6 to 9
 - d) 10 to 12
- 7) The name of the compound $\begin{array}{c} \text{H}_3\text{C} - \text{CH} - \text{CH}_3 \\ | \\ \text{CH}_3 \end{array}$ is _____.
 - a) isobutane
 - b) n-butane
 - c) iso-propane
 - d) butane
- 8) The functional group of alcohol is _____.
 - a) $-\text{COOH}$
 - b) $\begin{array}{l} \diagup \\ \diagdown \end{array} \text{C} = \text{O}$
 - c) $-\text{OH}$
 - d) $-\text{NH}_2$
- 9) Lechatalier's principle is applicable for _____ process.
 - a) reversible
 - b) irreversible
 - c) exothermic
 - d) endothermic
- 10) In, Van't Hoff isotherm _____ can calculate of the system.
 - a) ΔH
 - b) ΔS
 - c) ΔG
 - d) Temperature.
- 11) _____ is a protonic theory.
 - a) Arrhenius
 - b) Lewis
 - c) Bronsted - Lowry
 - d) Gibb's

