Name:	Subject: Chemistry	Class: 10 th	Time: 60 minutes	Total Marks:	30
Chapter No.10	MJDexpert.com			Obtained marks	

Note: Please attempt any 7 short questions from Question 2. Also, attempt both parts (a and b) of Question 3. "a" Part is 5 marks and "b" is 4 marks. Cutting and removal of any content is strictly prohibited.

Objective-Section

Q. 1 Encircle the correct Answer.

(7x1=7)

- 1. You want dry a gas which one of the following salt you will use.
- a) CaCl₂

b) NaCl

c) CaO

- d) Na₂Sio₃
- 2. The water of crystallization is responsible for the
- a) Melting point of crystals

b) boiling point of crystals

c) shapes of crystals

- d) transition of crystals
- 3. The product of Lewis acid base reaction is called abduct the bond between the adduct species is
- a) ionic

b) covalent

c) metallic

- d) coordinate covalent
- 4. which one of the following species is not amphoteric
- a) H2O

b) NH3

c) HCO_3^-

- d) SO_4^{2-}
- 5. What is the pOH of a 0.02M Ca(OH)₂₇
- a) 1.698

b) 1.397

c) 12.31

- d) 12.61
- 6. The conjugate acid of HPO_4^{2-} is
- a) PO_4^{3}

b) $H_2PO_4^-$

c) $H2PO_4^{2-}$

- d) H₃PO₄
- 7. A reaction between an acid and a base produces
- a) Slat and water

b) salt and gas

c) salt and acid

EXPERIMENTAL COM

Subjective-Section

Q.2 Write short answers of any seven of the following questions: (7x2=14)

- . What is auto ionization of water? How it si used to establish the pH of water?
- 2. Define pH and pOH. How pH and pOH of a solution are calculated?
- 3. Write the uses of pH scales?
- 4. What is universal indicator?
- 5. Find out the pH and pOH of 0.001 M solution of KOH?
- 6. What are conjugate bases of each of the following?
- 7. Define and give the characteristics of Lewis acid?
- 8. Write Limitation of Arrhenins concept?

Q.No.3 Long Question:

(5+4=9)

- a. Explain Lewis concept of an acid and a base?
- b. Give the applications of some important bases?