

VITHALBHAI PATEL & RAJRATNA P. T. PATEL SCIENCE COLLEGE  
VALLABH VIDYANAGAR  
B. Sc. (SEMESTER – IV)

SUBJECT: APPLIED CHEMISTRY (US04CCHE02)

DATE: 17-03-2016 INTERNAL TEST – MARCH, 2016 MARKS: 25  
DAY : THURSDAY TIME: 3.00 pm TO 4.30 pm

Note: (i) All questions are to be attempted. (ii) Figures to the right indicate marks.

Q.1 Choose the correct option for the following : [3]

(i) Vitamin C becomes inactive if the foods are prepared in ----- vessels.

(a) Zinc (b) Aluminium (c) Copper (d) None of these

(ii) Chemical formula of Chile saltpeter is \_\_\_\_.

(a)  $\text{NaNO}_3$  (b)  $\text{NaNO}_2$  (c)  $\text{Na}_2\text{SO}_4$  (d) None of these

(iii) What is the chemical formula of gypsum?

(a)  $\text{CaSO}_4 \cdot 1/2 \text{H}_2\text{O}$  (b)  $\text{CaO} \cdot \text{SiO}_2$  (c)  $\text{CaSO}_4 \cdot 2 \text{H}_2\text{O}$  (d)  $\text{CaO} \cdot \text{Al}_2\text{O}_3$

Q.2 Answer the following (Attempt any two) : [4]

(i) Give the classification of vitamins.

(ii) Give the action of calcium cyanamide as fertilizers ?

(iii) What are the uses of gypsum ?



Q.3 Write chemistry, biochemical Function and deficiency symptoms of Vitamin A. [6]

OR

Q.3 Write chemistry and biochemical Function of Vitamin E. [6]

Q.4 Answer the following : [6]

[A] Describe the manufacturing process and action of urea as fertilizer.

[B] Write a note on normal super phosphate fertilizer.

OR

Q.4 Answer the following : [6]

[A] Describe the manufacturing process of ammonium nitrate.

[B] Discuss the natural sources of fertilizer.

Q.5 Answer the following : [6]

[A] Discuss basic raw material, manufacturing process and uses of lime.

OR

Q.5 Discuss the Wet process for manufacture of Portland cement. [6]