

VITHALBHAI PATEL & RAJRATNA P. T. PATEL SCIENCE COLLEGE

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B. Sc. (SEMESTER – IV)

SUBJECT : APPLIED CHEMISTRY (US04CCHE02)

DATE : 17-03-2015

INTERNAL TEST – MARCH, 2015

MARKS : 25

DAY : TUESDAY

TIME : 10.30 P.M. TO 12.00 P.M.

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) Which of the following is Known as Vitamin E ?

(a) Retinol (b) Tocopherol (c) Ascorbic acid (d) Ergosterol

(ii) Which type of gypsum used for preparing small trinkets ?

(a) Alabastar (b) Selenite (c) Satin spar (d) Gypsite

(iii) Which elements are considered as subsidiary nutrients ?

(a) Ca, Mg & S (b) N, P & K (c) Zn, B & Cu (d) Mn, Mo & Cl

**Q.2 Answer the following (Attempt any three) :**

**[6]**

(i) Give the classification of vitamins.

(ii) Write the action of  $\text{CaCN}_2$  as a fertilizer.

(iii) What are the uses of Plaster of Paris ?



**Q.3 Write chemistry, biochemical function and deficiency symptoms of vitamin A.**

**[6]**

OR

**Q.3 Write chemistry and biochemical function of vitamin D.**

**[6]**

**Q.4 Define the term fertilizer. Discuss basic raw material, manufacturing process and action as a fertilizer of urea.**

**[6]**

OR

**Q.4 Explain ammonium phosphate as a fertilizer also write name of other phosphate which used as a fertilizer.**

**[6]**

**Q.5 Discuss wet process for manufacturing of Portland Cement.**

**[6]**

OR

**Q.5 Discuss basic raw material and manufacturing process of Lime.**

**[6]**

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