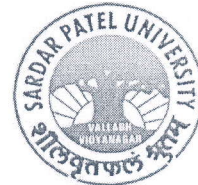


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A Charutar Vidya Mandal's Institution
V.P. & R.P.T.P. SCIENCE COLLEGE
(AUTONOMOUS) (Grant-in-Aid)
Affiliated to Sardar Patel University
VALLABH VIDYANAGAR-388120



Bachelor of Science (Semester IV) External Examination - 2026
US04MICHE01 : ANALYTICAL CHEMISTRY-II

Date: 27-03-26 ~~WEDNESDAY~~ **FRIDAY**

Time: 01:45 P.M. TO 3:15 P.M.

Total marks : 25

Note: Figures to the right indicate marks of the question.

- Q-1 Write the most appropriate answer from the following multiple-choice questions. [05]
- (1) A portion of a sample withdrawn from a volumetric flask with the pipette is called
(A) Analyte (B) Titrant
(C) Aliquot (D) Titrand
- (2) _____ is an art and science of determining composition of material in the terms of elements or compounds
(A) Physical chemistry (B) Analytical chemistry
(C) Inorganic chemistry (D) Organic chemistry
- (3) 10 grams of KHCO_3 is dissolved in 1 liter solution. Calculate percentage of a solution
(A) 10 (B) 2.0
(C) 20 (D) 1.0
- (4) The _____ is an important requirement of the aquatic life.
(A) Dissolved nitrogen (B) Dissolved chlorine
(C) Dissolved oxygen (D) Dissolved methane
- (5) Full name of NTU is
(A) Nephelometric Test Unit (B) Nephelometric Turbidity Unit
(C) Nephelometric Total Unit (D) None of the above



- Q-2 How will you determine percentage purity of Vinegar? [10]
OR
- Q-2 Prove that the color change range, pH of the system is $\text{pH} = \text{pK}_{\text{In}} \pm 1$. [10]
- Q-3 What is water pollutant? Classify water pollutant and explain each of them. [10]
OR
- Q-3 Discuss methods to analyze color of water sample. [10]