

No

B.Sc. Part II (Semester – III) (NEP- 2020) Examination October/November, 2023

Balasaheb Desai College, Patan

CHEMISTRY (Paper – VI) Analytical Chemistry

Subject Code: 91567

Day and Date: Saturday, 25/11/2023

Total Marks: 40

Time: 10.30 a.m. to 12.30 p.m.

Instruction: Use of scientific calculator and logarithmic table is allowed

Q1 Select the most correct alternative among those given below and rewrite the sentence: (08)

- i) Colour of the pure water is ----
 - A) Blue
 - B) Sky blue
 - C) Pale green
 - D) Colorless
- ii) Calorific value of fuel -----
 - A) signifies energy content or heating efficiency of fuel
 - B) found by burning fuel in bomb calorimeter
 - C) varies with its composition
 - D) all of these
- iii) Best quality biodiesel is produced from -----
 - A) canola
 - B) Olive oil
 - C) soya oil
 - D) all of these
- iv) Chemical used for industrial purposes falls under class..... of Trademarks.
 - A) 2
 - B) 5
 - C) 1
 - D) 16
- v) The mobile phase cannot be a -----
 - A) Solid
 - B) Liquid
 - C) Gas
 - D) Fluid
- vi) The electrostatic forces operate in chromatography type, -----
 - A) Adsorption
 - B) Ion Exchange
 - C) Permeation
 - D) Affinity
- vii) What is essential for corrosion?
 - A) Liquid
 - B) Water
 - C) Air
 - D) Time
- viii) In electroplating plays an important role
 - A) Electrolysis
 - B) Osmosis
 - C) Reverse osmosis
 - D) Electro osmosis

Q2 Attempt Any TWO of the following (16)

- A) Define precipitation and explain the essential requirements of good precipitation
- B) What is chromatography? How is it classified?
- C) Discuss methods of protection of metals from corrosion.

Q3 Attempt Any Four of the following (16)

- a) Define and explain with suitable examples pH of water.
- b) Write a note on Ageing of the precipitate.
- c) Write a short note on, "Cleaning of articles to be electroplated."
- d) What is petroleum and where does it occur?
- e) Explain any two chemical parameters of water.
- f) Briefly explain the applications of petrochemicals.

परिक्षा समिती प्रमुख
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