

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
B.Sc. (Part - III, Sem. V)
Subject: Analytical Chemistry (Paper - XII)
Internal Examination

Day and Date: Friday, 12th March, 2021
Time: 03:00 to 04:00 pm

Marks: 10

Q.1. Select most correct alternative for each of the following and rewrite the sentences. 10 Marks

1) The crucible along with the residue is cooled and kept in a ----- to avoid moisture absorption.
a) oven b) desiccators c) refrigerator d) cupboard

2) Crystalline precipitates are digested for long time to eliminate -----
a) co-precipitation b) post-precipitation c) peptization d) coagulation

3) $\epsilon = k/2.303$, is called -----
a) molar extension coefficient b) molar absorptivity c) molar absorption index d) all of these

4) The determination of eq. point by plotting $\Delta E/\Delta V$ vs. volume of titrant (V) is known as ----- method.
a) second derivative b) first derivative
c) classical method d) none of the above

5) A device for measuring a response of photocell is called -----
a) galvanometer b) voltmeter c) colorimeter d) conductometer

6) Fe^{3+} is ----- form and Fe is ----- form of iron metal.
a) oxidized, reduced b) reduced, oxidized c) both a and b d) none of these

7) Spectrophotometry is concerned with ----- region of electromagnetic spectrum
a) visible b) ultraviolet c) IR d) microwave

8) At 298 K, $E_{\text{QH}} = \text{-----} - 0.0591\text{pH}$.
a) 0.6998 b) 0.9869 c) 0.2458 d) 0.06998

9) Oxine is used to precipitate -----
a) Al b) Fe c) Mg d) both a and c

10) For standardization of a potentiometer, a standard cell having voltage ----- is generally used.
a) 2 V b) 1.018 V c) 1 V d) 0 V