

CIRCULAR :-

A reference is invited to the Ordinances, Regulations, and syllabi relating to the F.Y.B.Sc. and S.Y.B.Sc. examinations vide this office Circular No.UG/167 of 2008 and No.UG/129 of 2009, dated 22nd April, 2008 and 4th May, 2009 respectively and the Principals of the affiliated Colleges in Science are hereby informed that the recommendation made by the Board of Studies in Chemistry at its meeting held on 11th May, 2010 has been accepted by the Academic Council at its meeting held on 10th June, 2010 vide item No. 4.72 and that, in accordance therewith, the following Inorganic Practicals in Qualitative Analysis (Experiments) given in F.Y.B.Sc. & S.Y.B.Sc. syllabi should be changed to methods used as per the syllabi before revision and which will be implemented from the academic year 2010-2011.

**Syllabus Revision (Partial) of F.Y.B.Sc. And S.Y.B.Sc.
(Inorganic Chemistry) Practicals Syllabi**

The matter about substituting Inorganic semi-micro qualitative analysis "without using H₂S gas scheme" by the earlier one "With using H₂S gas", recommended by the Review committee appointed by the Board of Studies (BOS), was discussed in detail in its meeting held on 11th May, 2010. It was agreed by all the BOS members that the scheme without H₂S gas should be aborted as it does not give satisfactory results and it should be substituted by the earlier well-established and practiced scheme with use of H₂S gas for F.Y.B.Sc. and S.Y.B.Sc. Classes. Therefore, the following changes are to be made in the syllabi:

The following part of F.Y.B.Sc. (2008-2009) practicals syllabus:

4. Inorganic semi-micro qualitative analysis of a sample containing two anions and any four cations from the groups given below:

Group A: Pb²⁺, Cu²⁺, Fe³⁺, Ni²⁺, Zn²⁺, Ca²⁺, Mg²⁺, NH₄⁺;

Group B: NH₄⁺, K⁺, Al³⁺, Cd²⁺, Mn²⁺, Ba²⁺, Co²⁺, Mg²⁺;

Group C: K⁺, Fe³⁺, Sr²⁺, Cu²⁺, Cr³⁺, Ni²⁺, Al³⁺, Mg²⁺;

Anions: CO₃²⁻, SO₄²⁻, NO₃⁻, Cl⁻, Br⁻, I⁻; (Complexities of anions not expected)

is to be replaced by the following :

Semi-micro qualitative Analysis (with use of H₂S gas) of mixture containing not more than two cations and two anions from any of the following:

Cations: Pb²⁺, Bi³⁺, Cu²⁺, Sn²⁺, Fe³⁺, Al³⁺, Cr³⁺, Mn²⁺, Zn²⁺, Co²⁺, Ni²⁺, Ba²⁺, Ca²⁺, Sr²⁺, Mg²⁺, K⁺, NH₄⁺,

Anions: CO₃²⁻, SO₃²⁻, S²⁻, NO₂⁻, Cl⁻, Br⁻, I⁻, NO₃⁻, SO₄²⁻,
(Complexities of anions not expected).

AND

The following part of S.Y.B.Sc. (2009-2010) practicals syllabus:

3. Semi-micro qualitative Analysis for the presence of four cations and two anions from:-

Cations : Pb^{2+} , Cu^{2+} , Cd^{2+} , Fe^{3+} , Cr^{3+} , Al^{3+} , Mn^{2+} , Zn^{2+} , Ni^{2+} , Co^{2+} , Ca^{2+}

Ba^{2+} , Sr^{2+} , Mg^{2+} , NH_4^+ , K^+

Anions : Cl^- , Br^- , I^- , SO_4^{2-} , NO_3^- , NO_2^- , CO_3^{2-} , SO_3^{2-} , PO_4^{3-} , OAc^-

BO_3^{3-}

CrO_4^{2-} , S_2 , O_3^{2-}

is to be replaced by the following :-

Semi-micro Qualitative Analysis (with use of H_2S gas): At least 8 mixtures of salts containing not more than two cations and two anions of the following :-

Cations: Pb^{2+} , Bi^{3+} , Cu^{2+} , Cd^{2+} , As^{3+} , Sb^{3+} , Fe^{2+} , Fe^{3+} , Cr^{3+} , Al^{3+} , Zn^{2+} , Co^{2+}

Mn^{2+} , Ni^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Mg^{2+} , K^+ , NH_4^+

Anions : Cl^- , Br^- , I^- , NO_2^- , NO_3^- , SO_4^{2-} , SO_3^{2-} , CO_3^{2-} , S_2 , CrO_4^{2-} , PO_4^{3-}

The above-mentioned changes are to be implemented from academic year 2010-2011 for smooth conduct of practicals.

MUMBAI-400 032

9th September, 2010

L. R. MANE
Offg. REGISTRAR

To,

The Principals of the affiliated colleges in Science

A.C./4.72/10/06/2010

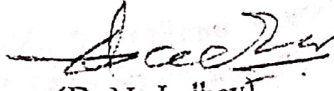
No. UG/287-A of 2010,

MUMBAI-400 032

9th September, 2010

Copy forwarded with compliments for information to:-

- 1) The Dean, Faculty of Science,
- 2) The Chairman, Board of Studies in Chemistry,
- 3) The Controller of Examinations,
- 4) The Co-Ordinator, University Computerization Centre,


(D. N. Jadhav)
Ag. Deputy Registrar
(UG/PG Section)

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Copy to :-

The Director, Board of College and University Development, the Deputy Registrar (Eligibility and Migration Section), the Director of Students Welfare, the Executive Secretary to the Vice-Chancellor, the Pro-Vice-Chancellor, the Registrar and the Assistant Registrar, Administrative sub-center, Kalyanagiri for information.

The Controller of Examinations (10 copies), the Finance and Accounts Officer (2 copies), Record Section (5 copies), Publications Section (5 copies), the Deputy Registrar, Enrolment, Eligibility and Migration Section (3 copies), the Deputy Registrar, Statistical Unit (2 copies), the Deputy Registrar (Accounts Section), Vidyanaagari (2 copies), the Deputy Registrar, Affiliation Section (2 copies), the Professor-cum-Director, Institute of Distance and Open Learning (IDOL), (10 copies) the Director University Computer Center (IDE Building), Vidyanaagari, (2 copies) the Deputy Registrar (Special Cell), the Deputy Registrar, (PRO) the Assistant Registrar, Academic Authorities Unit (2 copies) and the Assistant Registrar, Executive Authorities Unit (2 copies). They are requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to in the above circular and that on separate Action Taken Report will be sent in this connection. The Assistant Registrar Constituent Colleges Unit (2 copies), BUCT (1 copy), the Deputy Account, Unit V (1 copy), the In-charge Director, Centralize Computing Facility (1 copy), the Receptionist (1 copy), the Telephone Operator (1 copy), the Secretary MUASA (1 copy), the Superintendent, Post-Graduate Section (2 copies), the Superintendent, Thesis Section (2 copies)

Savita/28/7/2010.