

2019
Part – II
CHEMISTRY
(General)
Paper – III
(Practical Instruction)

Full Marks – 100

Time : 6 Hours

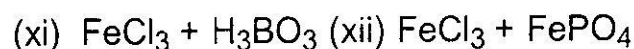
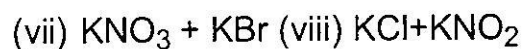
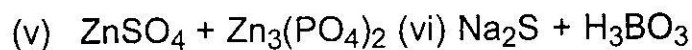
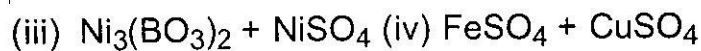
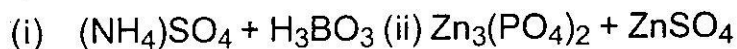
[Instruction to the Examiners]

1. All the principals / TIC / Head of the Department of different colleges are requested that before commencement of the Practical Examination, a copy of the examination schedule with the names of internal and external examiners should be sent to the Head examiner for his record.
2. Each practical examination batch should consist of 20-25 examinee.
3. Key of samples (Inorganic and Organic) with full signature of both examiners should be kept in a sealed cover and are to be opened jointly by the examiners after the examination of the centre is completed.

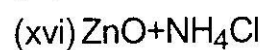
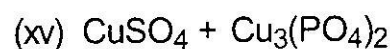
P.T.O.

4. Care should be taken to check Examiner's signature in the examined scripts and award list.
5. Examiners are requested to set up at least 30% Quantitative/Qualitative experiments (Q. No. 2) in a batch of examinees.
6. Data for titrations (at least two) should be signed by the examiner. Titre value differencing by more than 0.2 ml should not be accepted.
7. Examiners are requested to examine scripts along with keys, award-lists, distribution record and top-sheets showing the candidates presence and absence to the H.E positively within 15 days after the examination of the centre is over.
8. Examiners are requested to supply any one of the following compounds for question No. 01.
 - (i) Benzoic acid (ii) Resorcinol (iii) Cinnamic acid
 - (iv) Benzophenone (v) Aniline (vi) B-Naphthol
 - (vii) p-hydroxybenzoic acid (viii) 1-Naphthylamine
 - (ix) m-dinitrobenzene (x) Aniline hydrochloride
 - (xi) p-chlorobenzoic acid (xii) p-Toluidine
 - (xiii) Salicylic acid (xiv) Sulphonilic acid
 - (xv) p-amino benzoic acid.

9. Supply any **one** of the following mixture for question No. 2a.



(xiii) Mohr Salt



10. Prepare and supply the unknown mixture of $\frac{N}{2}$ order for question No. 2b. (23 ml or 24 ml or 25 ml or 26 ml)

11. Evaluate answer script for Q.1 and Q.2a as per No. division given in question. For Q. 2b follow the following instruction.

(i) For Accurate weighing –

0.6125 ± 0.05 award 5

0.6125 ± 0.07 award 3

0.6125 ± 0.1 award 1

Beyond these range award 0

(ii) Write up for preparation of stock solution .5.

(iii) Table for titration. $2\frac{1}{2} \times 2 = 5$

• (iv) Calculation $2\frac{1}{2} \times 2$

(v) Result (for each) 10×2

Error upto 2% award 10

> 2% upto 3% award 8

> 3% upto 4% award 6

> 4% upto 5% award 4

> 5% upto 6% award 2

> 6% upto 10% award 1

> 10% award 0
