

2019

Part – II

CHEMISTRY

(Honours)

Paper – V(B)

(Inorganic)

(Practical)

Full Marks – 50

Time : 6 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers in
their own words as far as practicable.*

1. Detect four radicals (excluding CO_3^{2-} & O^{2-} if any) in the supplied inorganic sample (Marked-I) and suggest the most probable composition of the supplied sample with proper justification.
 - (a) Note physical characteristics and solubility of the sample. 2
 - (b) Dry tests for the presence of radicals (Report positive test only) 10

- (c) Wet tests for the presence of radicals including the preparation of the solutions, removal interfering acid radicals (avoid detail procedure), treatment of insoluble part (if any) with systematic approach. (Report only positive test per acid radicals. Group separation and analysis of the group(s) present for basic radicals in the tabular form including preparation of solutions) 18
- (d) Confirmatory test of detected radicals. 4
- (e) Mention the name and correct notation of the detected radicals. 2
- (f) Logical establishment of the most probable composition of the supplied sample. 4

2. Laboratory Note Book. 5
3. Viva-Voce. 5
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