

1. Great care should be taken to ensure that the information given in items 2 and 3 below does **not** reach the candidates **either** directly **or** indirectly before the examination.
2. In addition to the fittings and reagents normally contained in a Chemistry laboratory, the following apparatus and materials will be required by **each** candidate:
 - (a) one burette of 50 cm^3 capacity;
 - (b) one pipette, **either** 20 cm^3 **or** 25 cm^3 . All candidates at one centre **must** use pipettes of the same volume. These should be clean and free from grease;
 - (c) the usual apparatus for titration;
 - (d) the usual apparatus and reagents for qualitative work including the following with all reagents **appropriately** labelled:
 - (i) dilute sodium hydroxide solution;
 - (ii) dilute hydrochloric acid;
 - (iii) dilute trioxonitrate (V) acid;
 - (iv) silver trioxonitrate (V) solution;
 - (v) aqueous barium chloride;
 - (vi) aqueous ammonia;
 - (vii) lime water;
 - (viii) red and blue litmus papers;
 - (ix) dilute tetraoxosulphate (VI) acid;
 - (x) acidified potassium dichromate solution.
 - (e) spatula;
 - (f) filtration apparatus;
 - (g) **one** beaker;
 - (h) **one** boiling tube;
 - (i) **four** test tubes;
 - (j) methyl orange indicator;
 - (k) glass rod;
 - (l) wash bottle containing distilled/deionized water;
 - (m) burning splint;
 - (n) watch glass;
 - (o) bunsen burner/source of heat;
 - (p) droppers
 - (q) mathematical table/calculator;
 - (r) phenolphthalein indicator.

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Anthony S. Fauci



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