UNIVERSITY OF CALCUTTA

SARSUNA COLLEGE

CU CBCS SEM-III CEMG PRACTICAL EXAMINATION,2020

PAPER-CC3/GE3

FULL MARKS-30 **TIME DURATION-1 Hr 30Mins.**

SINGLE PDF FORMAT Of the Answer Scripts Should Be Sent To The Following EMAIL ID

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1) Answer the following questions. 15x1=15

a) NH_4^+ radical gives a brown precipitate when treated with ---------- reagent in NaOH medium.

b)The colour of the Borax bead produced with Co^{2+} salts is ----------.

c) All sodium salts are water soluble---TRUE/FALSE(Tick the correct option)

d) Sulphide salts produce ---------- colouration when their sodium carbonate extract solution was treated with sodium nitroprusside solution.

e) Ca^{2+} salts produce ---------- colour in flame test.

f) In Group-IV basic radical analysis Ba^{2+} radical is precipitated as barium chromate(a yellow precipitate) by adding ---------- solution .

g) During the flame test performing with an inorganic salt sample ,the platinum wire was frequently cleaned by using ---- ---------- acid.

h) Ammonium (NH_4^+) salts produce a ---------- colour sublimate on the cooler part of the test tube during dry test tube heating test.

i) In the oxidative fusion test for Cr^{3+} and Mn^{2+} the reactant mixture was taken on a ------ foil.

j) The flame colour of copper salt is apple green/bluish green(tick the correct one)

k) Soda- Lime test is performed to detect the presence of---------- salts.

l) Name group reagents for Group-IIIA.

m)A sample salt when treated with concentrated sulphuric acid(H_2SO_4) produces violet vapour,this indicates the presence of which of the following radicals : I^- OR Br^-

n) Name an interfering acid radical.(with formula/symbol)

o) Sample+ dilute sulphuric acid +few drops of freshly prepared ferric chloride($FeCl_3$) solution produces blood red colouration,this observation indicates the presence of ---------- radical(name the radical with formula)

2) Draw three columns with headings Experiment,Observation,Inference(in the given order) and write the following tests in detail.(an example is provided below) (2+2+1=5)x3=15

Experiment	Observation	Inference
Describe in detail	Describe in detail	X radical(Its name and symbol,eg. Na^+,Sodium Salt) present and confirmed

a) **Chromyl Chloride Test For Chloride Radical**
b) **Special Test For Nickel Radical with the HCl-Extract of The Sample**
c) **Oxidative Fusion Test For Chromium Radical**