P525/3
CHEMISTRY
(PRACTICAL)
Paper 3
Nov./Dec. 2008
31/4 hours



Centre / Index No.

## UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Advanced Certificate of Education

CHEMISTRY

Paper 3

3 hours 15 minutes

## INSTRUCTIONS TO CANDIDATES:

Answer all questions.

Record your answers on this question paper in the spaces provided.

Mathematical tables, slide rules and silent non-programmable calculators may be used.

Reference books (i.e. text books. Books on qualitative analysis, etc.) should not be used.

Candidates are not allowed to start working with the apparatus for the first 15 minutes. This time is to enable candidates to read the question paper and make sure they have all the apparatus and chemicals that they may need.

	For Examine	rs' Use Onl	y
0.1	Q.2	Q.3	Total
24	130	15	69
~_			

© 2008 Uganda National Examinations Board

Turn Over

(4)

You are provided with an organic substance Z. You are required to determine the nature of Z. Carry out the following tests on Z and record your observations and TESTS OBSERVATIONS DEDUCTIONS (a) Burn a small amount of Z Salurated Colourless liqued on a crucible lid or spatula end. Confound (or fellow him solly Actor - Low Certain Content for C: H) Reject logu MM to Mean Con C: H (b) To about 1 cm of Z, add No observable about 1 cm3 of dilute sodium Change hydroxide solution OR. Readily Miscible /soluble we water to form a Celeurless Solution Change purple colonian absent (c) To about 1 cm3 of Z, add 2to 3 drops of neutral iron(III) chloride solution and warm. Colorer of neutral In n(111) Accept No brown ppt CH3COO whient Chloride remains / passes or I acquire bother Colour of Ingallo Chlorde DAT Reject toller / Grown collection Turn Over - Reject Evany white in to

Scanned by CamScanner

TESTS	OBSERVATIONS	DEDUCTIONS
(d) To about 1 cm <sup>3</sup> of Z, add about 1 cm <sup>3</sup> of water. Shake and allow to stand. Test the resultant solution with litmus paper and divide the solution into two portions.	Misuble sintle in water to from a Colorater Schulen Schulen Schulen Schulen State litrous reil.  Spect alahi mahan	Carlo year
(i) To the first portion of the solution, add 1cm³ of sodium hydrogen carbonate solution.	Effervescence; Colorinless gas that turned time water milky and blue homes red Colorinless solution remained	Cartioxylia acid L'acid
(ii) To the second portion of the solution, add 2 to 3 drops of 2,4 dinitrophenyl hydrazine solution (Brady's reagent).	1	Methanoic (HCOCH) acid Confined or H-C
(e) To about 0.5 cm <sup>3</sup> of Z, add about 1cm <sup>3</sup> of Tollen's reagent, warm and allow the mixture to stand.	Immediate 602 Cloudness followed by a silver history on warming Reject: grey precipitate Reject: Clack ppt, white p	Mothanoic acid Confirmed. Reject cursos

