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IGCSE A\* MODEL ANSWER

0620 CHEMISTRY

May/June 2023

Paper 41



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7 This question is about organic compounds.

(a) Butane reacts with chlorine in a photochemical reaction.



(i) State the meaning of the term photochemical.

caused by violet light

[1]

(ii) An organic compound with the formula  $\text{C}_4\text{H}_9\text{Cl}$  is formed when one molecule of butane reacts with one molecule of chlorine.

Draw the displayed formula of two possible structural isomers with the formula  $\text{C}_4\text{H}_9\text{Cl}$  formed in this reaction.

1. 1-chlorobutane

2. 2-chlorobutane

✓



[2]

(b) The structure of compound A is shown in Fig. 7.1.

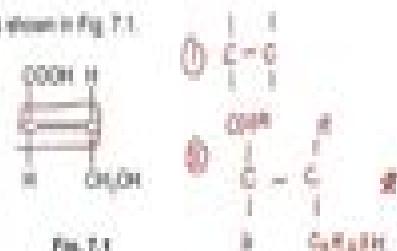


Fig. 7.1

(i) Deduce the molecular formula of compound A.

$\text{C}_4\text{H}_8\text{O}_3$

[1]

(ii) There are three functional groups in compound A.

Name the functional group of compounds that contain the following functional groups:

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**M Planty**



## May June 2013 0620 23:

Hart's Annual Army List, Special Reserve List, and Territorial Force List ,1857      Hart's Annual Army List, Militia List, and Imperial Yeomanry List ,1857      Animals as specific objects of obligations under Polish and German law Małgorzata Lubelska-Sazanów,2021-01-18 Defining where the needs of contracting parties end and where the mistreatment of animals begins is especially difficult in contract law where protecting animals is not a basic premise Thus although animal law is a widely discussed topic the position of animals under civil law has not been discussed comprehensively before The first chapters of the book set the background for subsequent civil law considerations given that the object of a contractual obligation is an animal and the impact this has on the conclusion performance and consequences of non performance of a contract It constitutes a unique interdisciplinary and comparative work focused mainly on animals in contractual relations e g sale donation lease tenancy commission agency safe keeping training contracts      *Tide Tables ... High and Low Water Predictions, West Coast of North and South America, Including the Hawaiian Islands* ,1989 Contains a table of the predicted times and heights of the high and low waters for each day of the year at a number of places which are designated as reference stations      Tide Tables, East Coast of North and South America, Including Greenland ,1994      Results of Meteorological Observations Made ... Radcliffe Observatory,1874      **Annual Report of the Secretary of the State Board of Health of the State of Michigan, for the Fiscal Year Ending...** Michigan. State Board of Health,1905      **Tide Tables, 1997** International Marine,National Oceanic and Atmospheric Administration,1996-09      **House documents** ,1892      **Tide-tables of the Indian Ocean** Survey of India. Geodetic and Research Branch,1968      **Tide Tables 2004** International Marine Publishing Company,2003-10 This is a navigational publication that provides the times and heights of tides for thousands of locations      **Water Levels** Tides and Water Levels (Canada),1972      Oregon Administrative Rules Compilation ,2015      **Reed's Nautical Almanac** ,2004      **The Admiralty Tide and Tidal Stream Tables for the Year ...** ,1968      **The Indian Tide Tables for the Year ...** ,1963      *Tidal Current Tables 2012* Noaa,2011-11 The Tidal Current Tables contain daily predicted times of slack water and the predicted times and speeds of maximum current flood or ebb for each day of the year on the Pacific Coast of North America and Asia      **European Rail Timetable** ,2007      **Alloys Index** ,1983      *Admiralty Tide Tables* ,1957

## **May June 2013 0620 23** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**May June 2013 0620 23**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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