



## Cambridge Lower Secondary Checkpoint

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**SCIENCE**

Paper 2

0893/02

April 2023

45 minutes

You must answer on the question paper.

No additional materials are needed.

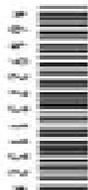
### INSTRUCTIONS

- Answer **all** questions.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- You should show all your working in the booklet.
- You may use a calculator.

### INFORMATION

- The total mark for this paper is 50.
- The number of marks for each question or part question is shown in brackets [ ].

This document has 20 pages. Any blank pages are indicated.



# Checkpoint Science Past Papers

**Thirumalaisamy P.  
Velavancorresponding**



## Checkpoint Science Past Papers:

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**High Performance Computing for Computational Science - VECPAR 2002** José M.L.M. Palma,2003-04-07 This book constitutes the thoroughly refereed post proceedings of the 5th International Conference on High Performance Computing for Computational Science VECPAR 2002 held in Porto Portugal in June 2002 The 45 revised full papers presented together with 4 invited papers were carefully selected during two rounds of reviewing and improvement The papers are organized in topical sections on fluids and structures data mining computing in chemistry and biology problem solving environments computational linear and non linear algebra cluster computing imaging and software tools and environments

*Chemistry Extension File* Eileen Ramsden,2002 This chemistry extension file includes teaching notes guidance on coursework activities and equipment It has at least one assignment for each topic in the textbooks suitable for classwork and homework A comprehensive range of practical activities are included It contains extensive Key Skills and ICT materials An exam file resource containing a complete set of exam style questions in a format that can be used throughout Years 10 and 11 or as a resource for a revision programme is included

Great Papers in Computer Science Phillip A. Laplante,1996 A supplement to courses or seminars this work compiles major papers written during the development of computer science including papers that are valuable yet difficult to find Chapters correspond to the areas listed in the Denning Report on computer science curriculum Where possible papers are preceded by an introduction by one of the original authors

**The Best American Science And Nature Writing 2018** Sam Kean,2018-10-02 A collection of the year s best science and nature writings selected by New York Times bestselling author Sam Kean This is one of the most exciting times in the history of science Sam Kean proclaims in his introduction to *The Best American Science and Nature Writing 2018* Things aren t perfect

by any means But there are more scientists making more discoveries in more places about more things than ever before The twenty six pieces assembled here chart the full spectrum of those discoveries From the outer reaches of space to the mysteries of the human mind to the changing culture in labs and universities across the nation we see time and again the sometimes rocky sometimes revelatory road to understanding and along the way catch a glimpse of all that s left to learn The Best American Science and Nature Writing 2018 includes contributions by Ross Andersen Jacqueline Detwiler Sophie Brickman John Lanchester Siddharta Mukherjee Kim Todd Douglas Fox J B MacKinnon Barack Obama David Roberts Ceridwen Dovey Caitlin Kuehn Paul Kvinta Joshua Rothman Christopher Solomon Kayla Webley Adler Rachel Leven Rebecca Boyle Kenneth Brower Susannah Felts Steven Johnson Elena Passarello Ed Yong Barbara Bradley Hagerty Eva Holland Kathryn Schulz *Analog Science Fiction/science Fact* ,1982 **Library Literature & Information Science** ,2004 An index to library and information science literature **Social Science Record** ,1988 **New Scientist** ,2005 **AIAA Computing in Aerospace ... Conference** , Gale Directory of Databases ,1993 *Science* John Michels (Journalist),2002 A weekly record of scientific progress *Hagar* ,2000 **Library Literature** ,2000 The Journal of NIH Research ,1994 The Scientist ,1994 Comm/Ent ,1986 *National Geographic* ,2009

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web dibenzalacetone was synthesized in the lab from benzaldehyde and acetone under basic conditions the gc ms was used to relate the molar mass of the product thin layer chromatography was used to visualize the relative rf factor for each isomer uv vis instrument showed three peaks that were assigned to each isomer

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web an aldol reaction was performed by combining acetone and benzaldehyde to make dibenzalacetone the percent yield of dibenzalacetone was found to be 73 which is a good percent yield the melting point of dibenzalacetone was around the range of 104 110 c this helped conclude that dibenzalacetone had a trans trans e e isomer

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web dibenzalacetone a introduction in an aldol condensation two molecules of aldehyde or ketone are joined together along with the loss of water for example in the aldol condensation shown in figure 1 two molecules of ethanal are reacted to produce an a b unsaturated aldehyde and water figure 1 aldol condensation of ethanal to

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