

MARK SCHEME for the May/June 2010 question paper
for the guidance of teachers.

5070/42

5070 CHEMISTRY

Paper 4 (Alternative to Practical), maximum raw mark 80

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This is an updated edition of the book by the same author Plio Quaternary volcanism in Italy Petrology geochemistry geodynamics published in 2005 by Springer This edition has the same structure as the previous publication with a general introduction various chapters dedicated to different volcanic provinces in Italy and a final chapter on the relationships between magmatism and geodynamics It includes information that has become available in the last ten years and new chapters have been added offering detailed discussions of the Oligo Miocene orogenic volcanism on Sardinia and of some small outcrops of fragmented volcanic rocks occurring in several places of the Apennines This new edition now covers the entire Tyrrhenian Sea magmatism of the last 40 Ma Lastly it includes two appendices Appendix 1 reports on a comparison between the Tyrrhenian Sea volcanism and the partially coeval magmatism along the Alps and adjoining areas and has the objective of highlighting similarities and difference that can tell us much on geodynamics and magmatism between the converging plates of Europe and Africa Appendix 2 is an update of the 2005 edition appendix and deals with classification of orogenic rocks with special emphasis on potassic alkaline volcanics

Thermochemical Conversion of Biomass to Liquid Fuels and Chemicals Mark Crocker, 2010-09-10 There is increasing recognition that low cost high capacity processes for the conversion of biomass into fuels and chemicals are essential for expanding the utilization of carbon neutral processes reducing dependency on fossil fuel resources and increasing rural income While much attention has focused on the use of biomass to produce ethanol via fermentation high capacity processes are also required for the production of hydrocarbon fuels and chemicals from lignocellulosic biomass In this context this book provides an up to date overview of the thermochemical methods available for biomass conversion to liquid fuels and chemicals In addition to traditional conversion technologies such as fast pyrolysis new developments are considered including catalytic routes for the production of liquid fuels from carbohydrates and the use of ionic liquids for lignocellulose utilization The individual chapters written by experts in the field provide an introduction to each topic as well as describing recent research developments

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