



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

MEMO

NATIONAL SENIOR CERTIFICATE

GRADE 12

PHYSICAL SCIENCES: PHYSICS (P1)
NOVEMBER 2024

MARKS: 150

TIME: 3 hours

Q1	21 minutes	20 marks
Q2	19 minutes	15 marks
Q3	22 minutes	16 marks
Q4	11 minutes	12 marks
Q5	11 minutes	12 marks
Q6	9 minutes	12 marks
Q7	12 minutes	14 marks
Q8	20 minutes	21 marks
Q9	9 minutes	13 marks
Q10	10 minutes	15 marks
Total	150 minutes	150 marks

This question paper consists of 16 pages and 3 data sheets.



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Ploughshares and Swords Jayita Sarkar, 2022-07-15 India's nuclear program is often misunderstood as an inward looking endeavor of secretive technocrats. In *Ploughshares and Swords* Jayita Sarkar challenges this received wisdom narrating a global story of India's nuclear program during its first forty years. The book foregrounds the program's civilian and military features by probing its close relationship with the space program. Through nuclear and space technologies India's leaders served the technopolitical aims of economic modernity and the geopolitical goals of deterring adversaries. The politically savvy transnationally connected scientists and engineers who steered the program obtained technologies, materials and information through a variety of state and nonstate actors from Europe and North America including both superpowers. They thus maneuvered around Cold War politics and the choke points of the nonproliferation regime. Hyperdiversification increased choices for the leaders of the nuclear program but reduced democratic accountability at home. The nuclear program became a consensus enforcing device in the name of the nation. *Ploughshares and Swords* is a provocative new history with global implications. It shows how geopolitical and technopolitical visions influence decisions about the nation after decolonization. Thanks to generous funding from the Swiss National Science Foundation, the ebook editions of this book are available as Open Access volumes from Cornell Open, cornellpress.cornell.edu/cornell-open and other repositories. **75 Years Aloft: Royal Australian Air Force Air Training Corps: Australian Air Force Cadets, 1941-2016** Matthew Glozier, 2015-12-03 This book celebrates 75 years of Air Force cadet activity in Australia, 1941-2016. The organisation has had a tremendous impact upon the lives of tens of thousands of Australians over our 75 year history. Since 1982 it has enhanced the lives of young women as well as men. The book begins in WWII with the need to pre-train capable and committed keen lads. Over 30,000 Australian boys were air cadets, 1941-1945, with almost 13,000 going on to active service in the war. Air Force cadets survived into peacetime to become an aviation focussed youth development organisation providing flying training in a military atmosphere with the aim of inspiring cadets to join the RAAF. There are currently over 8,000 Air Force cadets and adult staff around Australia. Aviation centred youth development in a RAAF service environment remains our central focus. *Christian Advocate*, 1907. *European Yearbook / Annuaire Européen, Volume 60 (2012)* Council of Europe, 2013-12. The European Yearbook promotes the scientific study of nineteen European supranational organisations and the OECD. Each volume contains a detailed survey of the history, structure and yearly activities of each organisation and an up to date chart providing a clear overview of the member states of each organisation. **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons, 2012. *Engineering News-record*, 1893.

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