

GRADE 12 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1

QUESTION 1

1.1 Solve for x

1.1.1 $x^2 - 9x + 20 = 0$ (3)

1.1.2 $x(x + 3) - 1 = 0$ (correct to 2 decimal points) (3)

1.1.3 $x^2 + 7x < 0$ (3)

1.1.4 $2x^{\frac{2}{3}} = 64$ (4)

1.2 Solve simultaneously for x and y if:

$2x - y = 8$, and
 $x^2 - xy + y^2 = 19$ (7)

1.3 Solve the expression below without the use of a calculator:

$$\frac{\sqrt[3]{4} + \sqrt[3]{2}}{\sqrt[3]{16}}$$

(4)

QUESTION 2

2.1 The terms p , $(2p + 2)$, $(5p + 3)$ form an arithmetic sequence.

Determine:

2.1.1 The value of p . (4)

2.1.2 The rule in the form of $a_n = a + (n - 1)d$. (2)

2.1.3 The 15th term of the sequence. (4)

2.2 x , y , 81 is a geometric sequence.
And $y = 2x - 5$
All terms in the sequences are integers.
Calculate the values of x and y . (10)

[24]

QUESTION 3

Given the sequence 2, 8, 10, 14,

3.1 What type of sequence is this? Justify your answer by calculation. (2)

3.2 Calculate T_{10} . (3)

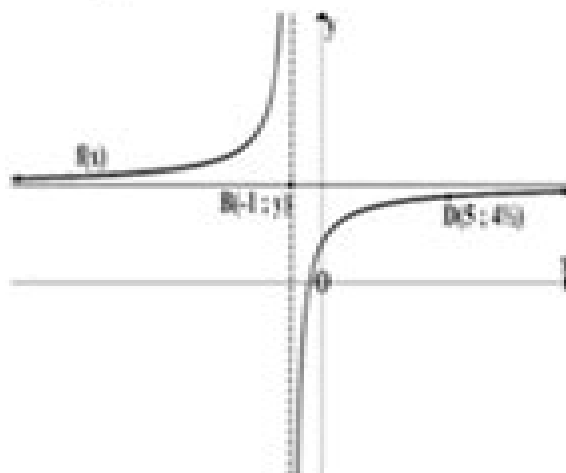
3.3 Which term has a value of 322? (3)

3.4 Determine by calculation if 1204 is a term in the sequence? (4)

[12]

QUESTION 4

The sketch below shows the graph of $f(x) = \frac{-1}{x+5} + 4$. The asymptotes of f intersects at $B(-1; y)$. The Point $D(5; 4)$ is a point on the graph.



4.1 Determine the value of p . (1)

4.2 Prove that $q = 5$. (2)

4.3 Calculate the x -intercept of f . (2)

4.4 Determine the equation of the vertical asymptote of h if $h(x) = f(x + 4)$. (2)

4.5 One of the symmetry axes of f is an increasing function. Determine the equation of the symmetry axis. (3)

4.6 Give the values x for $f(x) \geq x + 6$. (2)

4.7 Determine the equation of g , the reflection of f in the x -axis and move two units to the right. (3)

[15]

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Jean Seaton



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Handbook of Cannabis Roger Pertwee, 2014-08-21 Truly global in scope and with contributions from leading researchers around the world The Handbook of Cannabis is the definitive resource on this fascinating drug Combining scientific perspectives and clinical applications it covers a vast array of topics from why over the centuries cannabis has been used as a medicine through the regulations facing those wishing to self administer cannabis or provide cannabis based medicines to the chemical structure of its many constituents and the rapidly growing group of synthetic cannabinoids that are currently being used for legal highs With each chapter written by a group of one or more internationally recognised subject experts it provides academics and researchers with authoritative scientific material on the main pharmacological actions and their effects as well as their pharmacokinetics metabolism and forensic detection In addition it also examines the complex morphology cultivation harvesting and processing of cannabis and the ways in which the plant s chemical composition can be controlled As well as offering a raft of scientific information there is extensive coverage of cannabinoid based medicines Helping readers to identify and evaluate their benefits chapters explore pharmacological actions and the effects that seem to underlie approved therapeutic uses how they are currently used to treat certain disorders and the ever growing number of wide ranging potential clinical applications There is also coverage of both the legal and illegal sources of cannabis including coffee shops and cannabis dispensaries The complex issue of recreational cannabis is also tackled The sought after and adverse psychological and non psychological effects are described and discussions are included on how some adverse effects can be lessened by at least one constituent of cannabis and that it might be possible to reduce the harm that cannabis does to some by changing current regulatory policies The Handbook of Cannabis is a one stop reference essential reading for all clinicians pharmacologists psychologists and psychiatrists interested in this drug as well as those working in the field of public health

Federal Register , 2012-07

Pinkoes and Traitors Jean Seaton, 2015-02-26 This compelling account of a turbulent period in the history of the BBC opens at a time of national decline under the Labour governments of Harold Wilson and James Callaghan and ends during Margaret Thatcher s iconoclastic Conservative premiership The intervening years saw mass unemployment trade union strikes and war in Northern Ireland and the Falklands as well as legendary BBC programmes such as Live Aid Fawlty Towers and Dad s Army The Singing Detective and Tinker Tailor Soldier Spy and David Attenborough s Life on Earth Comprehensively revised and expanded for this new edition Jean Seaton s perceptive study presents an absorbing analysis of an institution that both reflects Britain and has helped to define it

Minerals Yearbook Geological Survey, Interior Department, Mines Bureau, 2019-01-31 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary

School Choice and the Betrayal of Democracy Robert Asen, 2021-10-04 Evidence shows that the increasing privatization of K 12

education siphons resources away from public schools resulting in poorer learning conditions underpaid teachers and greater inequality But as Robert Asen reveals here the damage that market based education reform inflicts on society runs much deeper At their core these efforts are antidemocratic Arguing that democratic communities and public education need one another Asen examines the theory driving privatization popularized in the neoliberalism of Milton and Rose Friedman as well as the case for school choice promoted by former secretary of education Betsy DeVos and the controversial voucher program of former Wisconsin governor Scott Walker What Asen finds is that a market based approach holds not just a different view of distributing education but a different vision of society When the values of the market choice competition and self interest shape national education that policy produces individuals Asen contends with no connections to community and no obligations to one another The result is a society at odds with democracy Probing and thought provoking School Choice and the Betrayal of Democracy features interviews with local on the ground advocates for public education and offers a countering vision of democratic education one oriented toward civic relationships community and equality This book is essential reading for policymakers advocates of public education citizens and researchers

Knowledge, Curriculum and Equity Brian Barrett, Ursula Hoadley, John Morgan, 2017-07-20 In 2008 the first in a series of symposia established a social realist case for knowledge as an alternative to the relativist tendencies of the constructivist post structuralist and postmodernist approaches dominant in the sociology of education The second symposium focused on curriculum and the development of a theoretical language grounded in social realism to talk about issues of knowledge and curriculum Finally the third symposium brought together researchers in a broad range of contexts to build on these ideas and arguments and with a concerted empirical focus bring these social realist ideas and arguments into conversation with data Knowledge Curriculum and Equity Social Realist Perspectives contains the work of the third symposium where the strengths and gaps in the social realist approach are identified and where there is critical recognition of the need to incrementally extend the theories through empirical study Fundamentally the problem that social realism is seeking to address is about understanding the social conditions of knowledge production and exchange as well as its structuring in the curriculum and in pedagogy The central concern is with the on going social reproduction of inequality through schooling and exploring whether and how foregrounding specialised knowledge and its access holds the possibility for interrupting it This book consists of 13 chapters by different authors working in Oceania Asia Europe Africa and North America From very different vantage points the authors focus their theoretical and empirical sights on the assumptions about knowledge that underpin educational processes and the pursuit of more equitable schooling for all

Resources in Education ,1978 Globalizing Human Rights Christian Peterson, 2012-03-12 This work elucidates the complexities of how Western governments private citizens and the Soviet Union used the issue of human rights violations as ideological weapon during the Cold War It will pay particular attention to how private citizens both shaped and became an important part of the U S government s efforts to weaken the international

prestige of the USSR *Counter-Recruitment and the Campaign to Demilitarize Public Schools* Scott Harding, Seth Kershner, 2016-04-29 This book describes the various tactics used in counter recruitment drawing from the words of activists and case studies of successful organizing and advocacy The United States is one of the only developed countries to allow a military presence in public schools including an active role for military recruiters In order to enlist 250 000 new recruits every year the US military must market itself to youth by integrating itself into schools through programs such as JROTC Junior Reserve Officers Training Corps and spend billions of dollars annually on recruitment activities This militarization of educational space has spawned a little noticed grassroots resistance the small but sophisticated counter recruitment movement Counter recruiters visit schools to challenge recruiters messages with information on non military career options activists work to make it harder for the military to operate in public schools they conduct lobbying campaigns for policies that protect students private information from military recruiters and counter recruiters mentor youth to become involved in these activities While attracting little attention counter recruitment has nonetheless been described as the military recruiter s greatest obstacle by a Marine Corps official [Typist Previous Questions and Answers PDF](#) Nidheesh C V, This e book contains Kerala PSC Kerala High Court Recruitment Board and Kerala Devaswom Recruitment Board 2006 to 2024 Typist Stenographer Confidential Assistant Data Entry Operator post question papers and their answers Examinations Contained LD Typist Typist Clerk Stenographer Reporter Grade 2 Data Entry Operator Confidential Assistant Computer Assistant Grade 2 etc Kerala PSC s Final answer key prepares all Answers Google PDF E book 7558071990 Call WhatsApp PSC Typist Stenographer Confidential Assistant Data Entry Operator Computer Assistant 2006 2024

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