ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Advanced Level

MATHEMATICS 9164/3

PAPER 3 Mechanics and Statistics

NOVEMBER 2015 SESSION 3 hours

Additional materials:
- Answer paper
- Graph paper
- List of Formulae
- Scientific calculator

TIME 3 hours

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer **all** questions.

If a numerical answer cannot be given exactly, and the accuracy required is not specified in the question, then in the case of an angle it should be given to the nearest degree, and in other cases, it should be given correct to 2 significant figures.

If a numerical value for g is necessary, take $g = 9.81\ ms^{-2}$.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [ ] at the end of each question or part question.

The total number of marks for this paper is 120.

Within each section of the paper, questions are printed in the order of their mark allocations and candidates are advised, within each section, to attempt questions sequentially.

The use of a scientific calculator is expected, where appropriate.

You are reminded of the need for clear presentation in your answers.

This question paper consists of 8 printed pages.

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November 2013 Mathematics 9164 1

Jimmy Huh,Ramesh Raghupathi,Bridgette D. Semple

November 2013 Mathematics 9164 1:

Building Inclusive Education in K-12 Classrooms and Higher Education: Theories and Principles Koreeda, Kiyoji,Tsuge, Masayoshi,Ikuta, Shigeru,Dalton, Elizabeth Minchin,Ewe, Linda Plantin,2023-06-12 Most people recognize the importance of inclusive education and hope to promote it everywhere at all levels and situations in education However the road to realizing this ideal is by no means a smooth one due to this further study is required Building Inclusive Education in K 12 Classrooms and Higher Education Theories and Principles discusses various inclusive practices in K 12 classrooms and higher education all over the world and presents problems and challenges that educators are struggling to overcome Covering key topics such as educational technology global movement and inclusive education this major reference work is ideal for administrators policymakers industry professionals researchers academicians scholars practitioners instructors and students *Proceedings of the 44th Annual American Astronautical Society Guidance, Navigation, and Control Conference, 2022* Matt Sandnas,David B. Spencer,2024-03-30 This conference attracts GN C specialists from across the globe The 2022 Conference was the 44th Annual GN C conference with more than 230 attendees from six different countries with 44 companies and 28 universities represented The conference presented more than 100 presentations and 16 posters across 18 topics This year the planning committee wanted to continue a focus on networking and collaboration hoping to inspire innovation through the intersection of diverse ideas These proceedings present the relevant topics of the day while keeping our more popular and well attended sessions as cornerstones from year to year Several new topics including Autonomous Control of Multiple Vehicles and Results and Experiences from OSIRIS REx were directly influenced by advancements in our industry In the end the 44th Annual GN C conference became a timely reflection of the current state of the GN C ins the space industry The annual American Astronautical Society Rocky Mountain Guidance Navigation and Control GN C Conference began 1977 as an informal exchange of ideas and reports of achievements among guidance and control specialists local to the Colorado area Bud Gates Don Parsons and Bob Culp organized the first conference and began the annual series of meetings the following winter In March 1978 the First Annual Rocky Mountain Guidance and Control Conference met at Keystone Colorado It met there for eighteen years moving to Breckenridge in 1996 where it has been for over 25 years Computer Vision – ECCV 2020 Andrea Vedaldi,Horst Bischof,Thomas Brox,Jan-Michael Frahm,2020-09-23 The 30 volume set comprising the LNCS books 12346 until 12375 constitutes the refereed proceedings of the 16th European Conference on Computer Vision ECCV 2020 which was planned to be held in Glasgow UK during August 23 28 2020 The conference was held virtually due to the COVID 19 pandemic The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions The papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography

neural networks image coding image reconstruction object recognition motion estimation **Head-Driven Phrase Structure Grammar** Stefan Müller,Anne Abeillé,Robert D. Borsley,Jean-Pierre Koenig,2024-11-07 Head Driven Phrase Structure Grammar HPSG is a constraint based or declarative approach to linguistic knowledge which analyses all descriptive levels phonology morphology syntax semantics pragmatics with feature value pairs structure sharing and relational constraints In syntax it assumes that expressions have a single relatively simple constituent structure This volume provides a state of the art introduction to the framework Various chapters discuss basic assumptions and formal foundations describe the evolution of the framework and go into the details of the main syntactic phenomena Further chapters are devoted to non syntactic levels of description The book also considers related fields and research areas gesture sign languages computational linguistics and includes chapters comparing HPSG with other frameworks Lexical Functional Grammar Categorial Grammar Construction Grammar Dependency Grammar and Minimalism *Long-Term Consequences of Pediatric Traumatic Brain Injury* Jimmy Huh,Ramesh Raghupathi,Bridgette D. Semple,2022-10-20 **Daily Synoptic Series, Historical Weather Maps** ,1935 Publishers' International ISBN Directory/International ISBN Agency Sabine Behle,1994

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