CBSE-XII-2014 EXAMINATION

MATHEMATICS

Paper & Solution

Code: 65/1

Time: 3 Hrs. | Max. Marks: 100

General Instructions:

(i) **All** question are compulsory.

(ii) The question paper consists of **29** questions divided into three sections A, B and C. Section A comprises of **10** questions of **one mark** each, Section B comprises of **12** questions of **four marks** each and Section C comprises of **7** questions of **six marks** each.

(iii) All questions in Section A are to be answered in one word, one sentence or as per the exact requirement of the question.

(iv) There is no overall choice. However, internal choice has been provided in 4 questions of four marks each and 2 questions of six marks each. You have to attempt only one of the alternatives in all such questions.

(v) Use of calculators is **not** permitted. You may ask for logarithmic tables, if required.

SECTION A

Question numbers 1 to 10 carry 1 mark each.

1. If $R = \{(x, y) : x + 2y = 8\}$ is a relation on N, write the range of R.

Solution:

$R = \{(x, y) : x + 2y = 8\}$ is a relation on N

Then we can say $2y = 8 - x$

$$y = 4 - \frac{x}{2}$$

so we can put the value of x, $x = 2, 4, 6$ only

we get $y = 3$ at $x = 2$
we get $y = 2$ at $x = 4$
we get $y = 1$ at $x = 6$
so range = {1, 2, 3} Ans.

2. If $\tan^{-1} x + \tan^{-1} y = \frac{\pi}{4}$, $xy < 1$, then write the value of $x + y + xy$.

Solution:

$$\tan^{-1} x + \tan^{-1} y = \frac{\pi}{4}$$

$$\Rightarrow \tan^{-1} \frac{x + y}{1 - xy} = \frac{\pi}{4}$$

$$\Rightarrow \frac{x + y}{1 - xy} = \tan \frac{\pi}{4}$$

$$\Rightarrow \frac{x + y}{1 - xy} = 1 \; or, \; x + y = 1 - xy$$

$$or, \; x + y + xy = 1 \; Ans.$$

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S Ben Porath

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Who's who Among Students in American Universities and Colleges Henry Pettus Randall,1973 **COVID-19: Integrating Artificial Intelligence, Data Science, Mathematics, Medicine and Public Health, Epidemiology, Neuroscience, Neurorobotics, and Biomedical Science in Pandemic Management, volume II** Atefeh Abedini,Reza Lashgari,2024-02-29 **Index Medicus** ,2003 **Arming the Warship** Iver P. Cooper,2024-11-04 In the 16th century warships engaged at close range sometimes with yards touching and small arms fire and hand to hand combat were at least as important as the great guns As time went on the big guns became more decisive and increased in destructive power range and accuracy This book explores how naval armament armor ballistics and gunnery evolved from the 16th to 20th centuries from a scientific and technological perspective It examines the functional aspects the guns and their distribution on warships the propellants the projectiles and so forth and examines the development of each **Textbook of Radiology And Imaging, Volume 1- E-Book** Bharat Aggarwal,2023-08-31 This book is a classic guide for trainees and practitioners with a comprehensive overhaul this book successfully bridges the gap between advancing technology terminology and the emergence of new diseases With its all encompassing approach this book serves as the ultimate resource for radiology professionals eliminating the need for multiple texts on various systems and recent updates Trainees and practitioners alike will find immense value as it caters to both skill enhancement and exam preparation for residents For trainees the book provides essential tools to elevate their expertise as it covers various topics Meanwhile community practitioners will greatly benefit from evidence based guidelines and protocols presented in the book The new edition of Sutton retains the overall format presentation style and comprehensive coverage of the previous editions Significant advances in imaging techniques and newer applications of different modalities have been incorporated in all sections Radiology lexicons and updated classification systems for various diseases have been included There is emphasis on differential diagnosis appropriateness criteria and disease management Salient features have been highlighted as imaging pearls and teaching points New sections for Imaging Physics Principles of Imaging Emergency Radiology Pediatric Radiology and Nuclear Medicine have been added to make the book more comprehensive Crucial topics on patient safety quality assurance and structured reporting have been included to help radiologists become processes driven and ensure better patient care Chapters on Information technology and Artificial intelligence introduce residents to the digital environment that we live in and its impact on day to day practice A section on Interventional Radiology has been included to enable residents to get a deeper understanding of this subspeciality and explore its scope in modern medicine This edition of Sutton is aimed at presenting an exhaustive teaching and reference text for radiologists and other clinical specialists *Principles of Psychology* Matt Jarvis,Paul Okami,2020 Principles of Psychology Contemporary Perspectives offers students a complete introduction to psychology It balances contemporary approaches with classic perspectives weaves stimulating conceptual issues throughout the text and

encourages students to think critically creatively and practically about the subject and how it applies to the real world It opens with an introduction to the study of psychology at undergraduate level and the positioning of psychology as a science including coverage of some of its methods before going on to look at the core domains of study typical in many European programmes and set out in the British Psychological Society guidelines The carefully developed pedagogical scheme is focused on getting students to think critically about the subject and to engage with its methodological elements and on demonstrating real world relevance Digital formats and resources Principles of Psychology Contemporary Perspectives is supported by online resources and is available for students and institutions to purchase in a variety of formats The e book is enhanced with embedded self assessment activities and multi media content including animations concept maps and flashcards to offer a fully immersive experience and extra learning support www oxfordtextbooks co uk ebooks The study tools that enhance the e book along with web links to guide further reading are also available as stand alone resources for use alongside the print book Here lecturers can access a Lecturer s Guide to the book alongside downloadable PowerPoints images and Test Banks for use in their teaching *Neoliberalism Economic Policy and the Collapse of the Public Sector* Lionel D. Lyles PhD.,2018-07-13 My book demonstrates how classical liberalism was the foundation upon which Thomas Jefferson George Washington Alexander Hamilton and others wrote the Declaration of Independence Constitution and the Bills of Rights however it was rolled back by 1980 and replaced with neoliberalism which was championed by the Reagan Administration In short this ideology has one main aim and that is to shrink government cut the budgets of social programs and give away billions of taxpayer dollars to private business in the form of tax breaks During the Jindal administration and by the end of its first term more than 7 billion worth of tax breaks had been given away to private business A surplus of 1 billion left in the Louisiana treasury by outgoing governor Kathleen Blanco after Hurricane Katrina was given away by the end of the first two months of its first term Today the Louisiana legislature is currently facing a 650 million fiscal cliff and no doubt more budget cuts are in store for the Louisiana public sector **Cumulated Index Medicus** ,1983 *Yearbook of International Organizations 2014-2015 (Volume 4)* Union Of International Associations,Union of International Associations,2014-09-17 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and acitvities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Providing both an international organizations and research bibliography Volume 4 cites over 46 000 publications and information resources supplied by international organizations and provides nearly 18 000 research citations under 40 subject headings This volume also includes a research bibliography on international organizations and transnational associations Arts &

Humanities Citation Index ,1998 *Forthcoming Books* Rose Arny,2001 **National Library Service Cumulative Book Review Index, 1905-1974: Titles. [A-Z** National Library Service Corporation,1975 **Journal of Developmental Education** ,2013 **A Supplement to the Oxford English Dictionary: H-N** R. W. Burchfield,1972 These volumes replace the 1933 Supplement to the OED The vocabulary treated is that which came into use during the publication of the successive sections of the main Dictionary that is between 1884 when the first fascicle of the letter A was published and 1928 when the final section of the Dictionary appeared together with accessions to the English language in Britain and abroad from 1928 to the present day Nearly all the material in the 1933 Supplement has been retained here though in revised form Preface

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