

# MATHEMATICS & STATISTICS

Time : 3 hrs.]

MARCH - 2015

[Marks : 80

Note : (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Graph of L.P.P. should be written on graph paper only.

(iv) Answer to new question must be written on a new page.

(v) Answers to both the section should be written in the same answer book.

(vi) Use of logarithmic table is allowed.

## SECTION - I

**Q. 1. (A) Select and write the most appropriate answer from the given alternatives in each of the following sub-questions :** [6]

(i) If  $A = \begin{bmatrix} 2 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 2 \end{bmatrix}$ , then  $A^6 =$  \_\_\_\_\_.

(a)  $6A$

(b)  $12A$

(c)  $16A$

(d)  $32A$

(2)

(ii) The principal solution of  $\cos^{-1}\left(-\frac{1}{2}\right)$  is \_\_\_\_\_.

(a)  $\frac{\pi}{3}$

(b)  $\frac{\pi}{6}$

(c)  $\frac{2\pi}{3}$

(d)  $\frac{3\pi}{2}$

(2)

(iii) If an equation  $hxy + gx + fy + c = 0$  represents a pair of lines, then \_\_\_\_\_.

(a)  $fg = ch$

(b)  $gh = cf$

(c)  $fh = cg$

(d)  $hf = -cg$

(2)

**Q. 1. (B) Attempt any THREE of the following:** [6]

(i) Write the converse and contrapositive of the statement -

"If two triangles are congruent, then their areas are equal."

(2)

(ii) Find 'k', if the sum of slopes of lines represented by equation  $x^2 + kxy - 3y^2 = 0$  is twice their product.

(2)

(iii) Find the angle between the planes  $F \cdot (2\vec{i} + \vec{j} - \vec{k}) = 3$  and  $F \cdot (\vec{i} + 2\vec{j} + \vec{k}) = 1$ .

(2)

(iv) The Cartesian equations of line are

$3x - 1 = 6y + 2 = 1 - z$ . Find the vector equation of line.

(v) If  $\vec{a} = \vec{i} + 2\vec{j}$ ,  $\vec{b} = -2\vec{i} + \vec{j}$ ,  $\vec{c} = 4\vec{i} + 3\vec{j}$ , find x and y such that  $\vec{c} = x\vec{a} + y\vec{b}$ .

(2)

**Q. 2.(A) Attempt any TWO of the following:** [6]

(i) If A, B, C, D are (1, 1, 1), (2, 1, 3), (3, 2, 2), (3, 3, 4) respectively, then find the volume of parallelepiped with AB, AC and AD as the concurrent edges.

(3)

(ii) Discuss the statement pattern, using truth table:  $\sim(\sim p \wedge \sim q) \vee q$

(3)

(iii) If point C( $\vec{c}$ ) divides the segment joining the points A( $\vec{a}$ ) and B( $\vec{b}$ ) internally

in the ratio m : n, then prove that  $\vec{c} = \frac{m\vec{b} + n\vec{a}}{m + n}$

(3)

**Q. 2.(B) Attempt any TWO of the following:** [8]

(i) Find the direction cosines of the line perpendicular to the lines whose direction ratios are -2, 1, -1 and -3, -4, 1

(4)

# March 2015 Maths Ppe

**Joan Hunter**



## March 2015 Maths Ppe:

**Discover Sociology** Daina S. Eglitis, William J. Chambliss, Susan L. Wortmann, 2021-08-26 Discover Sociology is an introductory text that describes the various forms of power and authority in all aspects of social life demonstrates why inequality matters and shows how studying sociology can benefit you as an engaged citizen and in your career

Reinventing the Supply Chain Jack Buffington, 2023-04-03 An original vision for using technology to transform supply chains into value chains in order to revitalize American communities When the COVID 19 pandemic led to a global economic shutdown in March 2020 our supply chains began to fail and out of stocks and delivery delays became the new norm Contrary to public perception the pandemic strain did not break the current system of supply chains it merely exposed weaknesses and fault lines that were decades in the making and which were already acutely felt in deindustrialized cities and depopulated rural towns throughout the United States Reinventing the Supply Chain explores the historical role of supply chains in the global economy outlines where the system went wrong and what needs to be done to fix it and demonstrates how a retooled supply chain can lead to the revitalization of American communities Jack Buffington proposes a transformation of the global supply chain system into a community based value chain led by the communities themselves and driven by digital platforms for raising capital and blockchain technology Buffington proposes new solutions to problems that have been decades in the making With clear analysis and profound insight Buffington provides a clear roadmap to a more durable and efficient system

*Advanced Materials and Conversion Technologies for Personal Protective Equipment Used in the COVID-19 Pandemic* Suresh Sundaramurthy, Sarika Verma, Avanish Kumar Srivastava, 2024-08-30 This book provides an overview of the latest research on COVID 19 antiviral personal protective equipment PPE including safety handling and disposal It also examines a range of durable energy efficient and next generation construction and building materials and energy fuel storage applications produced from PPE wastes The topics covered include impact of PPE waste generation during COVID 19 pandemic on the environmental sustainability and its economic aspects circular economy for advanced materials from used PPEs conversion technologies sustainability reuse and end of life materials from PPEs used in COVID 19 pandemic and microwave and plasma conversion technologies for used PPEs The book also discusses thermo chemical conversion technologies various properties and performance attributes The book is a valuable reference for researchers and professionals in the areas of material science It also proves as a valuable resource for policymakers and administrators involved in regulatory aspects of PPE kits

**School of Woke** Kenny Xu, 2025-10-14 From one of America's most relentless critics of Critical Race Theory comes this far reaching on the ground investigation of how CRT infiltrated our public schools and transformed them into activism factories with disastrous results Awareness of the rise of Critical Race Theory CRT in public schools and how it has shaped our education system took the U S by storm over the last few years Parents truly became aware for the first time how deeply entrenched CRT was in the classrooms and their eyes were opened to the

insidious agenda thoroughly embedded in public schools As a result CRT and parental rights in education became some of the most explosive issues facing Americans today Kenny Xu is a perceptive and relentless critic of CRT and our culture s war on meritocracy And now in School of Woke Xu exposes how CRT is transforming public schools and having a destructive impact on our children s education and their future In School of Woke Xu provides historical context to the rise of Critical Race Theory in education tracing it back to elite graduate schools in the 1970s and showing how the ideology became institutionalized and credentialed Xu covers the battles taking place in the most problematic and contested school districts in the nation including Loudoun and Fairfax County Public Schools in Northern Virginia and Santa Barbara High School in California He also exposes the lucrative business model behind the diversity consulting industrial complex that is instrumental in the curricular wars revealing how educators and administrators have been gaslighting the public about the prevalence of this radical ideology in the classrooms where children as young as five are being segregated in the classroom by race and are being taught that whiteness is inherently evil A work of colorful reportage historical analysis and cultural commentary School of Woke reveals what it will take to extricate our next generation from the destructive trends in our once vaunted public school education system

**Mine Action** Multiple Authors,2017-08-30 Every day civilians in dozens of countries around the world are injured and killed by landmines and other lethal leftovers of conflict years after hostilities of war have ended Once planted a mine will never be able to tell the difference between a military and civilian footstep and a bomblet will continue to attract children and metal dealers In order to put an end to the suffering and casualties caused by antipersonnel mines the Convention on the Prohibition of the Use Stockpiling Production and Transfer of Anti Personnel Mines and on their Destruction the Ottawa Convention or Mine Ban Treaty was adopted in 1997 Further in order to prevent suffering and casualties caused by cluster munitions at the time of their use the Convention on the Use Stockpiling Production and Transfer of Cluster Munitions the Oslo Convention was adopted in 2008 In 1996 the Royal Military Academy RMA opted for the implementation of mine action technological projects funded by the Belgian Ministry of Defense and the Belgian State Secretariat for Development Cooperation It further decided to set up a close collaboration with other Belgian universities which started organizing their own research activities on mine action Later other funding sources were granted to RMA by the Belgian Science Policy the European Commission and the European Committee for Standardization At a more politico administrative level RMA participates in the States Parties Meetings of the Mine Ban Treaty and in this context Prof Acheroy created an expert group on mine action technologies with representatives of different organizations and countries aiming at informing the States Parties of the Mine Ban Treaty about the evolution of the mine action technologies Further Prof Y Baudoin created working groups dedicated to robotics in mine action within international organization This book reports research activities achieved by the RMA s

*Ecological Limits of Development* Kaitlin Kish,Stephen Quilley,2021-11-03 Embracing the reality of biophysical limits to growth this volume uses the technical tools from ecological

economics to recast the Sustainable Development Goals SDGs as Ecological Livelihood Goals policy agendas and trajectories that seek to reconcile the social and spatial mobility and liberty of individuals with both material security and ecological integrity Since the 1970s mainstream approaches to sustainable development have sought to reconcile ecological constraints with modernization through much vaunted and seldom demonstrated strategies of decoupling and dematerialization In this context the UN SDGs have become the orchestrating drivers of sustainability governance However biophysical limits are not so easily sidestepped Building on an ecological economic critique of mainstream economics and a historical sociological understanding of state formation this book explores the implications of ecological limits for modern progressive politics Each chapter outlines leverage points for municipal engagement in local and regional contexts Systems theory and community development perspectives are used to explore under appreciated avenues for the kind of social and cultural change that would be necessary for any accommodation between modernity and ecological limits Drawing on ideas from H T Odum Herman Daly Zigmunt Bauman and many others this book provides guiding research for a convergence between North and South that is bottom up household centred and predicated on a re emerging domain of Livelihood In each chapter the authors provide recommendations for reconfiguring the UN s SDGs as Ecological Livelihood Goals a framework for sustainable development in an era of limits This book will be of great interest to students and scholars of ecological economics socio ecological systems political economy international and community development global governance and sustainable development

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