# II P.U.C PREPARATORY EXAM JAN/FEB - 2023

Time: 3 hours 15 minute

MATHEMATICS (35)

Max. Marks: 100

#### Instructions:

- 10 The question paper has five parts namely A. B. C. D and E. Answer all the parts.
- 23 Part A has 10 Multiple choice questions, 5 Fill in the blanks and 5 Very Short Answer questions of I mark each.
- Part A should be answered continuously at one or two pages of Answer sheet and 31 Only first answer is considered for the marks in subsection I and II of Part A.
- 35 Use the graph sheet for question on linear programming in PART E.

#### PART - A

#### I Answer ALL the Multiple Choice Questions

 $10 \times 1 = 10$ 

1. Let R be a relation in the set N given by R={(a,b): a-b=2, b>6}. Choose the correct answer

(A) 
$$(2,4) \in R$$

(C) (6,8) ∈ 
$$R$$

$$(D^{r}(8.7) \in R$$

2. If  $\sin^{-1} x = v$ , then

(A) 
$$0 \le y \le \pi$$

$$(B') - \frac{\pi}{2} \le y \le \frac{\pi}{2}$$
  $(C) 0 < y < \pi$   $(D) - \frac{\pi}{2} < y < \frac{\pi}{2}$ 

(C) 
$$0 < y < \pi$$

(D) 
$$-\frac{\pi}{2} < y < \frac{\pi}{2}$$

3. The number of possible matrices of order 3X3 with each entry 0 or 1 is

4. Let A be a non singular square matrix of order 3X3, then |adj A| is equal to

(B) 
$$|A|^2$$

5. The function f(x) = [x], where [x] denotes the greatest integer function is continuous at

6.  $\int \frac{\sin^2 x - \cos^2 x}{\sin^2 x - \cos^2 x} dx$  is equal to

(A) 
$$tan x + cot x + 0$$

(B) 
$$\tan x - \cot x + \cot x$$

(A) 
$$\tan x + \cot x + C$$
 (B)  $\tan x - \cot x + C$  (C)  $\tan x \cot x + C$  (D)  $\tan x - \cot 2x + C$ 

7. If  $\theta$  is the angle between any two vectors  $\overline{a}$  and  $\overline{b}$ , then  $|\overline{a}$ ,  $|\overline{b}| = |\overline{a} \times \overline{b}|$  when  $\theta$  is equal to

(B) 
$$\frac{\pi}{2}$$

$$(C)\frac{\pi}{4}$$

8. A line makes equal angles with co-ordinate axes. Direction cosines of this line are

$$(A) \pm (1,1,1)$$

(B) 
$$\pm (\frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}})$$
 (C)  $\pm (\frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ 

(C) 
$$\pm (\frac{1}{3}, \frac{1}{3}, \frac{1}{3})$$

(D) 
$$\pm (\frac{1}{\sqrt{3}}, \frac{-1}{\sqrt{3}}, \frac{-1}{\sqrt{3}})$$

9. Corner points of the feasible region determined by the system of constraints are

(0,3), (1,1) and (3,0). Let Z=px+qy, where p,q>0. Condition on p and q so that the minimum of Z occurs at (3,0) and (1,1) is

$$(A) p = 2q$$

(B) 
$$p = \frac{q}{2}$$

(C) 
$$p = 3q$$

$$(D)p = q$$

If P(A) = 0.8, P(B) = 0.5 and P(BiA)=0.4, then P(A∩B) is equal to

# **Mathematics Paper 1 Preparatory Examination 2008**

**SA Dillow** 

## **Mathematics Paper 1 Preparatory Examination 2008:**

Turbomaths Grade 12, Lessons Learned from Research on Mathematics Curriculum Denisse R
Thompson, Mary Ann Huntley, Christine Suurtamm, 2024-09-01 This volume focuses on research related to mathematics curriculum But rather than focusing on results of research it focuses on lessons learned about conducting research on curriculum whether about design and development analysis of curriculum in the form of official standards or textbook instantiations teacher intentions related to curriculum implementation or actual classroom enactment For scholars interested in curriculum research the volume offers lessons about conducting curriculum research that have been learned by others engaged in such work including frameworks tools and techniques as well as challenges and issues faced with solutions to address them Sharing lessons from authors of different countries strengthens the broader mathematics research community and provides insights that can help researchers make important strides forward in research on mathematics curriculum

**American Universities and Colleges** Praeger Publishers, 2010-04-16 For well over a half century American Universities and Colleges has been the most comprehensive and highly respected directory of four year institutions of higher education in the United States A two volume set that Choice magazine hailed as a most important resource in its November 2006 issue this revised edition features the most up to date statistical data available to guide students in making a smart yet practical decision in choosing the university or college of their dreams In addition the set serves as an indispensable reference source for parents college advisors educators and public academic and high school librarians These two volumes provide extensive information on 1 900 institutions of higher education including all accredited colleges and universities that offer at least the baccalaureate degree This essential resource offers pertinent statistical data on such topics as tuition room and board admission requirements financial aid enrollments student life library holdings accelerated and study abroad programs departments and teaching staff buildings and grounds and degrees conferred Volume two of the set provides four indexes including an institutional Index a subject accreditation index a levels of degrees offered index and a tabular index of summary data by state These helpful indexes allow readers to find information easily and to make comparisons among institutions effectively Also contained within the text are charts and tables that provide easy access to comparative data on relevant topics <u>Learning and Teaching Early Math</u> Douglas H. Clements, Julie Sarama, 2014-05-23 In this important book for pre and in service teachers early math experts Douglas Clements and Julie Sarama show how learning trajectories help diagnose a child's level of mathematical understanding and provide guidance for teaching By focusing on the inherent delight and curiosity behind young children's mathematical reasoning learning trajectories ultimately make teaching more joyous They help teachers understand the varying levels of knowledge exhibited by individual students which in turn allows them to better meet the learning needs of all children Using straightforward no nonsense language this book summarizes the current research about how children learn mathematics and how to build on what children already know to realize more effective

teaching This second edition of Learning and Teaching Early Math remains the definitive research based resource to help teachers understand the learning trajectories of early mathematics and become quintessential professionals Updates to the new edition include Explicit connections between Learning Trajectories and the new Common Core State Standards New coverage of patterns and patterning Incorporation of hundreds of recent research studies Mobile Learning and Mathematics Helen Crompton, John Traxler, 2015-02-11 Mobile Learning and Mathematics provides an overview of current research on how mobile devices are supporting mathematics educators in classrooms across the globe Through nine case studies chapter authors investigate the use of mobile technologies over a range of grade levels and mathematical topics while connecting chapters provide a strong foundational background in mobile learning theories instructional design and learner support For current educators Mobile Learning and Mathematics provides concrete ideas and strategies for integrating mobile learning into their mathematics instruction for example by sharing resources that will help implement Common Core State Standards or by streamlining the process of selecting from the competing and often confusing technology options currently available A cutting edge research volume this collection also provides a springboard for educational researchers to conduct further study 2010-2011 College Admissions Data Sourcebook West Edition ,2010-09 Admissions Data Sourcebook Northeast Edition Looseleaf 2010-11, 2010-09 Multilevel Modeling of Educational Data Ann A. O'Connell, D. Betsy McCoach, 2008-04-01 sponsored by the Educational Statisticians SIG Multilevel Modeling of Educational Data co edited by Ann A O Connell Ed D and D Betsy McCoach Ph D is the next volume in the series Quantitative Methods in Education and the Behavioral Sciences Issues Research and Teaching Information Age Publishing sponsored by the Educational Statisticians Special Interest Group Ed Stat SIG of the American Educational Research Association The use of multilevel analyses to examine effects of groups or contexts on individual outcomes has burgeoned over the past few decades Multilevel modeling techniques allow educational researchers to more appropriately model data that occur within multiple hierarchies i e the classroom the school and or the district Examples of multilevel research problems involving schools include establishing trajectories of academic achievement for children within diverse classrooms or schools or studying school level characteristics on the incidence of bullying Multilevel models provide an improvement over traditional single level approaches to working with clustered or hierarchical data however multilevel data present complex and interesting methodological challenges for the applied education research community. In keeping with the pedagogical focus for this book series the papers this volume emphasize applications of multilevel models using educational data with chapter topics ranging from basic to advanced This book represents a comprehensive and instructional resource text on multilevel modeling for quantitative researchers who plan to use multilevel techniques in their work as well as for professors and students of quantitative methods courses focusing on multilevel analysis Through the contributions of experienced researchers and teachers of multilevel modeling this volume provides an accessible and practical treatment of methods

appropriate for use in a first and or second course in multilevel analysis A supporting website links chapter examples to actual data creating an opportunity for readers to reinforce their knowledge through hands on data analysis This book serves as a guide for designing multilevel studies and applying multilevel modeling techniques in educational and behavioral research thus contributing to a better understanding of and solution for the challenges posed by multilevel systems and data

Closing the Opportunity Gap Prudence L. Carter, Kevin G. Welner, 2013-04-26 While the achievement gap has dominated policy discussions over the past two decades relatively little attention has been paid to a gap even more at odds with American ideals the opportunity gap Opportunity and achievement while inextricably connected are very different goals Every American will not go to college but every American should be given a fair chance to be prepared for college In communities across the U S children lack the crucial resources and opportunities inside and outside of schools that they need if they are to reach their potential Closing the Opportunity Gap offers accessible research based essays written by top experts who highlight the discrepancies that exist in our public schools focusing on how policy decisions and life circumstances conspire to create the opportunity gap that leads inexorably to stark achievement gaps They also describe sensible policies grounded in evidence that can restore and enhance opportunities Moving beyond conventional academic discourse Closing the Opportunity Gap will spark vital new conversations about what schools parents educators and **Study in Europe** Japheth K Kogei, 2008 Study policymakers can and should do to give all children a fair chance to thrive in Europe A Scholarships Guide presents scholarships awards fellowships grants studentships bursaries and courses that are available in different universities and colleges in Europe Each scholarship award description includes name of University or College academic department or faculty offering the award degree program and duration of study value and purpose of the scholarship admission requirements and eligibility any restrictions application deadlines and notification dates for undergraduate graduate doctoral and post doctoral study research and contact information The Oualified Student Harold S. Wechsler, 2014-09-15 In The Qualified Student Harold S Wechsler focuses on methods of student selection used by institutions of higher education in the United States More specifically he discusses the way that college and university reformers employed those methods to introduce higher education into a broader cross section of America by extending access to an increased number of students from nontraditional backgrounds Implicit in much of this book is an underlying social and ethical question How legitimate was and is higher education s regulation of social mobility Public concern over colleges and universities practices became inevitable once they became regulators between social classes The challenging of colleges admissions policies in the courts augments similar concerns that have been present in legislatures for decades The volume is divided into three main sections Prerequisites Columbia and the Selective Function and Implications It focuses mainly on four universities The University of Michigan Columbia University the University of Chicago and the City University of New York Wechsler maintains that unlike other universities these institutions were pacesetters they did not adopt a new

policy simply because some other college had already adopted it A new introduction brings the book originally published in 1977 up to date and demonstrates its continuing importance in today's academic world of selective admissions in Mediocrity Katherine Baird, 2012-08-09 Our students aren't learning we're falling behind other countries and many of our college graduates are even functionally illiterate We offer our kids a weak and poorly thought out curriculum too many teachers do not make good use of classroom time and follow lesson plans that are superficial and repetitive almost all state governments define proficiency at low levels of competency and because kids with very uneven skills populate a classroom teachers spend considerable time on review before introducing new material This dismal picture is tempered by the fact that the hard work and dedication of countless teachers and administrators means that many students get an excellent education But it doesn't temper it much As a group even our top students are not as strong as are those in a large majority of other rich countries But it doesn't have to be this way Katherine Baird an economist starts by clearly spelling out how our educational system is trapped in mediocrity Yet she doesn't just expose where we are She identifies the steps to get out of the trap We need to 1 dramatically reform our education s governance structure 2 establish high expectations for all students 3 provide adequate support to meet those expectations and 4 introduce strong incentives for students to work hard in school so they do their part in meeting higher standards Clearly it isn t as simple as it sounds but Baird carefully examines each factor that has led to the current state in education and then spells out how a combination of policies will weaken the forces that keep our schools mediocre and instead make them ones worth copying **Competitiveness and Innovation on the Committee's** 50th Anniversary with Bill Gates, Chairman of Microsoft United States. Congress. House. Committee on Science and Technology, United States. Congress. House. Committee on Science and Technology (2007), Bill Gates, 2008 Discrimination and Management of Ethnic Diversity and Migration at Work Joana Vassilopoulou, Julienne Brabet, Victoria Showunmi, 2019-08-28 Race Discrimination and Management of Ethnic Diversity and Migration at Work analyses nine countries perspectives on Diversity Management and their increasing awareness of diversity equality racism and discrimination within companies and organisations throughout Europe Gender differences and disparities in socialization contexts: How do they matter for healthy relationships, wellbeing, and achievement-related outcomes? Caterina Fiorilli, Daniela Barni, Jan Retelsdorf, Joyce Endendijk, 2023-01-05 **Teaching As Leadership** Teach For America, Steven Farr, 2010-02-02 A road map for teachers who strive to be highly effective leaders in our nation s classrooms Teach For America has fought the daunting battle of educational equity for the last twenty years Based on evidence from classrooms across the country they ve discovered much about effective teaching practice and distilled these findings into the six principles presented in this book The Teaching As Leadership framework inspires teachers to Set Big Goals Invest Students and Their Families Plan Purposefully Execute Effectively Continuously Increase Effectiveness Work Relentlessly The results are better educational outcomes for our nation s children particularly those who live in low income

communities Inspires educators to be leaders in their classrooms and schools Demystifies what it means to be an effective teacher describes key elements of practice and provides a clear vision of success Addresses the challenges every teacher in every classroom faces on a daily basis An accompanying website includes a wealth of tools videos sample lessons discussion The Democratic Dilemma of American Education Arnold Shober, 2018-04-19 This compelling boards and case studies new book asks How can American education policy be consistent with democratic ideals Robust democracy is the combination of participation self rule equality understanding and inclusion but these norms can produce contradictory policy Local control in education policy can undermine educational equality Participation in teachers unions can improve working conditions but thwart self rule by local taxpayers The Democratic Dilemma of American Education draws on contemporary research in political science and education policy to offer remarkably balanced insights into these challenging issues Expertly navigating through local state and federal layers of education policy Arnold Shober examines contemporary controversies over education governance teachers unions and collective bargaining school funding school choice academic accountability and desegregation Shober describes the inherent practical dilemmas of current policy and the difficulties policymakers face in overcoming them to produce lasting educational reform in a democratic federal system of government Timely engaging and accessible this is the ideal resource for courses in public policy as well as education and politics Colleges Princeton Review (Firm), 2009-07-28 Selects 371 of the best schools based on student feedback and provides information on tuition financial aid housing admission requirements and other statistics The Role of STEM High Schools in Reducing Gaps in Science and Mathematics Coursetaking: Evidence from North Carolina Elizabeth Glennie, Marcinda Mason, Ben Dalton, 2016-03-21 Some states have created science technology engineering and mathematics STEM schools to encourage student interest and enhance student proficiency in STEM subjects We examined a set of STEM schools serving disadvantaged students to see whether these students were more likely to take and pass advanced science and mathematics classes than their peers in traditional schools Although some gaps in STEM coursetaking persist economically disadvantaged and underrepresented minority students in STEM schools are more likely to take and pass these classes than their peers in non STEM schools Compared with non STEM schools the STEM schools have smaller gaps in advanced science and mathematics coursetaking and passing between disadvantaged and nondisadvantaged students U. S. News and World Report Ultimate College Guide U.S. News & World Report (Firm), 2007-10 In the simplest of terms leadership is about influencing people to achieve an objective that is important to the leader the group and the organization It is the human element leading motivating and inspiring particularly during times of crisis chaos and complexity when directives policy statements and communiques have little effect on cold exhausted and stressed followers Strong leadership encourages subordinates to go beyond the obligation to obey and commit to the mission in a way that maximizes their potential The Military Leadership Handbook is a concise and complete manual that identifies describes and explains all those concepts

components and ideas that deal with or directly relate to military leadership The book is a comprehensive compendium that focuses on among other subjects cohesion command cultural intelligence discipline fear and trust this applied manual provides invaluable assistance to anyone who wishes to acquire a better understanding of both the theory and application of military leadership

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