

Question 2

- (a) Mr. Ravi borrows ₹ 16,000 for 2 years. The rate of interest for the two successive years are 10% and 12% respectively. If he repays ₹ 5,600 at the end of first year, find the amount outstanding at the end of the second year. [3]

- (b) Simplify: [3]

$$\left(\frac{8}{27}\right)^{-\frac{1}{3}} \times \left(\frac{25}{4}\right)^{\frac{1}{2}} \times \left(\frac{4}{9}\right)^0 + \left(\frac{125}{64}\right)^{\frac{1}{3}}$$

- (c) In the given figure, ABCD is a parallelogram. AB is produced to P, such that AB = BP and PQ is drawn parallel to BC to meet AC produced at Q. Given AB = 8 cm, AD = 5 cm, AC = 10 cm. [4]

- (i) Prove that point C is mid point of AQ.
(ii) Find the perimeter of quadrilateral BCQP.

**Question 3**

- (a) Solve following pairs of linear equations using cross-multiplication method: [3]

$$5x - 3y = 2$$

$$4x + 7y = -3$$

- (b) Without using tables, evaluate: [3]

$$4 \tan 60^\circ \sec 30^\circ + \frac{\sin 31^\circ \sec 59^\circ + \cot 59^\circ \cot 31^\circ}{8 \sin^2 30^\circ - \tan^2 45^\circ}$$

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Illinois Information Service

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the Illinois Information Service text.

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iCEER2014-McMaster Digest Mohamed Bakr,Ahmed Elsharabasy,2014-11-18 International Conference on Engineering Education and Research *MASTER YOUR UGC NET/JRF EXAM General Paper I.* Dr Rishikesh Tewari ,2025-02-11

Mastering the UGC NET Syllabus has never been easier thanks to this revolutionary book that transforms the complex 10 unit Paper 1 curriculum into manageable easy to follow chapters By breaking down the vast syllabus into bite sized systematic lessons this book empowers readers to tackle the exam with confidence reducing stress and anxiety while fostering a sense of accomplishment with each completed chapter If the prospect of UGC NET Paper 1 seems daunting fear not This book is your ultimate secret weapon packed with engaging visuals diagrams and infographics that make learning an enjoyable and effective experience Written in a student friendly tone this book reads like a captivating novel offering crystal clear explanations of intricate concepts enriched with relatable real life examples and pop culture references that facilitate effortless comprehension Even for those racing against time this book provides a lifeline Each chapter features strategically designed Exam Essentials sections highlighting the most critical and frequently recurring topics from recent UGC NET exams By focusing on these pivotal sections candidates can optimize their study process targeting the most trending topics and achieving remarkable results in a remarkably short span of time **How Shanghai Does It** Xiaoyan Liang,Huma

Kidwai,Minxuan Zhang,Yinan Zhang,2016-04-08 The Shanghai basic education system has garnered significant attention since its extraordinary performance in the 2009 and 2012 Programme for International Student Assessment PISA a global assessment of 15 year olds educational abilities Among the 65 participating economies in 2012 Shanghai China ranked first on all three major domains of PISA i e mathematics reading and science Shanghai also stands out for having the world s highest percentage of resilient students students from socio economically disadvantaged backgrounds who emerge as top performers Shanghai s PISA story has generated intense discussions and diverse speculations in field of international educational development and numerous studies have been done in the attempt to unravel the mystery Missing from the picture however is a more comprehensive systematic in depth and objective rendition of the policies and practices of Shanghai basic education benchmarked against others in key dimensions This report presents an in depth examination of how Shanghai scored highest in the areas of reading science and mathematics on PISA It documents and benchmarks key policies in basic Shanghai education provides evidence on the extent to which these policies have been implemented in schools and explores how these policies have affected learning outcomes The report uses PISA 2012 data to analyze Shanghai student achievement variation and to examine the extent school variables may be associated with the variation beyond family and student background It also uses the World Bank s Systems Approach for Better Education Results SABER an existing systems diagnostic and benchmarking tool as an organizing framework and for data collection School based surveys and other existing research shed further light on educational impact and implementation While the report attempts

to adopt a systems approach particular emphasis is placed on teachers education financing balancing autonomy and accountability and student assessment *Emerging Technologies for STEAM Education* Xun Ge,Dirk Ifenthaler,J. Michael Spector,2015-09-09 This theory to practice guide offers leading edge ideas for wide scale curriculum reform in sciences technology engineering the arts and mathematics the STEAM subjects Chapters emphasize the critical importance of current and emerging digital technologies in bringing STEM education up to speed and implementing changes to curricula at the classroom level Of particular interest are the diverse ways of integrating the liberal arts into STEM course content in mutually reshaping humanities education and scientific education This framework and its many instructive examples are geared to ensure that both educators and students can become innovative thinkers and effective problem solvers in a knowledge based society Included in the coverage Reconceptualizing a college science learning experience in the new digital era Using mobile devices to support formal informal and semi formal learning Change of attitudes self concept and team dynamics in engineering education The language arts as foundational for science technology engineering art and mathematics Can K 12 math teachers train students to make valid logical reasoning Moving forward with STEAM education research *Emerging Technologies for STEAM Education* equips educators education researchers administrators and education policymakers with curricular and pedagogical strategies for making STEAM education the bedrock of accessible relevant learning in keeping with today s digital advances *U.S. Latino Issues* Rodolfo F. Acuña,2017-01-26 A revision of the popular previous edition published more than a decade earlier this work examines today s U S Latino population now arguably the most important minority group in the country with numbers well over 50 million strong in an increasingly diverse and integrated America Latinos are the largest minority in the United States and as such Latino Americans have a tremendous influence on the culture workforce economy and politics of this country This second edition of U S Latino Issues provides updated content stats and data for each topic and it frames critical questions and multiple viewpoints on Latinos in the United States that will be useful to student researchers The responses to the critical questions come from Latino experts and scholars and other well known subject experts providing readers with insights from various informed points of view all in a single volume The book covers hundreds of topics regarding Latino Americans such as gender sexuality indigenous culture race and cultural identity health and wellness education and interracial dating and marriage and it offers in depth comparisons of the Latino groups and shows how events in their native countries affect them Readers will have access to concise and up to date information on controversial topics such as affirmative action immigration reform open borders policy versus border enforcement changing relations between the United States and Cuba and Puerto Rico s contested status as a commonwealth versus a state **Celebrating Life Customs around the World** Victoria R. Williams,2016-11-21 This book documents hundreds of customs and traditions practiced in countries outside of the United States showcasing the diversity of birth coming of age and death celebrations worldwide From the beginning of our lives to the end all of humanity celebrates

life's milestones through traditions and unique customs In the United States we have specific events like baby showers rites of passage such as Bat and Bar Mitzvahs and sweet 16 birthday parties and sober end of life traditions like obituaries and funeral services that honor those who have died But what kinds of customs and traditions are practiced in other countries How do people in other cultures welcome babies prepare to enter into adulthood and commemorate the end of the lives of loved ones This three volume encyclopedia covers more than 300 birth life and death customs with the books content organized chronologically by life stage Volume 1 focuses on birth and childhood customs Volume 2 documents adolescent and early adulthood customs and Volume 3 looks at aging and death customs The entries in the first volume examine pre birth traditions such as baby showers and other gift giving events and post birth customs such as naming ceremonies child rearing practices and traditions performed to ward off evil or promote good health The second volume contains information about rites of passage as children become adults including indigenous initiations marriage customs and religious ceremonies The final volume concludes with coverage on customs associated with aging and death such as retirement celebrations elaborate funeral processions and the creation of fantasy coffins The set features beautiful color inserts that illustrate examples of celebrations and ceremonies and includes an appendix of excerpts from primary documents that include legislation on government accepted names wedding vows and maternity paternity leave regulations

An Age of Accountability John L. Rury, 2023-10-13 An Age of Accountability highlights the role of test based accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment The theory of change embedded in almost all test based accountability programs held that assessment with stipulated consequences could lead to major improvements in schools This was accomplished politically by proclaiming lofty goals of attaining universal proficiency and closing achievement gaps which repeatedly failed to materialize But even after very clear disappointments no other policy framework has emerged to challenge its hegemony The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree

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