

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

Time: 3 hours 15 minute

MATHEMATICS (35)

Max. Marks: 100

### Instructions:

- 1) The question paper has five parts namely A, B, C, D and E. Answer all the parts.
- 2) Part A has 10 Multiple choice questions, 5 Fill in the blanks and 5 Very Short Answer questions of 1 mark each.
- 3) Part A should be answered continuously at one or two pages of Answer sheet and Only first answer is considered for the marks in subsection I and II of Part A.
- 4) Use the graph sheet for question on linear programming in PART E.

### PART - A

#### 1. Answer ALL the Multiple Choice Questions

1. Let  $R$  be a relation in the set  $N$  given by  $R = \{(a,b) : a-b=2, b>6\}$ . Choose the correct answer  $10 \times 1 = 10$

(A)  $(2,4) \in R$       (B)  $(3,8) \in R$       (C)  $(6,8) \in R$       (D)  $(8,7) \in R$

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

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

3. The number of possible matrices of order  $3 \times 3$  with each entry 0 or 1 is

(A) 27      (B) 18      (C) 81      (D) 512

4. Let  $A$  be a non singular square matrix of order  $3 \times 3$ , then  $|\text{adj } A|$  is equal to

(A)  $|A|$       (B)  $|A|^2$       (C)  $|A|^3$       (D)  $3|A|$

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

(A) 4      (B) -2      (C) 1      (D) 1.5

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

(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  $\vec{a}$  and  $\vec{b}$ , then  $|\vec{a} \cdot \vec{b}| = |\vec{a} \times \vec{b}|$  when  $\theta$  is equal to

(A) 0      (B)  $\frac{\pi}{2}$       (C)  $\frac{\pi}{4}$       (D)  $\pi$

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

(A)  $\pm(1,1,1)$       (B)  $\pm(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}})$       (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)  $p = q$

10. If  $P(A) = 0.8$ ,  $P(B) = 0.5$  and  $P(B|A) = 0.4$ , then  $P(A \cap B)$  is equal to

(A) 0.12      (B) 0.20      (C) 0.32      (D) 0.9

# 2013 Preparatory Exam Question Paper

**Edward Vickers,Zeng Xiaodong**

## 2013 Preparatory Exam Question Paper:

**Quality Control in Preliminary Examination** Morten Bergsmo,Carsten Stahn,2018-09-06     *5 Sample Papers for CBSE 2020 Class 12 Exam - Physics, Chemistry Mathematics, Biology & English Core - 2nd Edition* Disha Experts,2019-07-19

5 Latest Sample Papers for CBSE 2020 Class 12 Exam - English Core, Physics, Chemistry Mathematics & Biology- 3rd Edition Disha Experts,2019-10-01 As CBSE changes the pattern of Board Exam released the Sample Paper on Sep 19 2019 Disha launches the thoroughly revised updated 3rd edition of its Bestselling book 5 Latest Sample Papers for CBSE 2020 Class 12 Exam The book provides 5 Sample Papers 1 Sample paper each of Physics Chemistry Mathematics Biology English Core on the exact pattern of the Sample Papers as released by CBSE Another unique feature of the Book is that each paper is preceded by its Blue Print which helps in providing due coverage to all the Chapters Detailed Solutions along with Marking Scheme has been provided for each paper The book also provides the latest Question Paper Design as prescribed by the CBSE Board

**Success Mantras of NEET/ JEE Toppers with Video Support** Avinash Agarwal,Disha Experts,2019-09-20 Success Mantras of NEET JEE Toppers with Video Support Results of a survey said that the difference between Topper an Average student is not much in terms of Subject knowledge intelligence or hard work but the major difference is in terms of study techniques and approach towards exam Hard work should bring success but only when coupled with efficient and appropriate study techniques The book is based on success story of hundreds of toppers of different exams The book seminar recapitulates and reinforces the basic study techniques adopted by toppers and helps in mastering skills techniques to learn more in less time and with less stress Some of the topics covered How to master Fundamentals How to sharpen Problem solving skills Improving your Output Net Score Tips and techniques on How to attempt a Question paper And many more ideas tips to improve your score and maximise your output

**The Crime of Aggression under the Rome Statute of the International Criminal Court** Carrie McDougall,2021-08-12 After the crime of aggression was adopted under the Rome Statute of the International Criminal Court Carrie McDougall used her intimate involvement in the crime s negotiations combined with extensive scholarly reflection to produce the first and most comprehensive academic study This updated second edition offers an exhaustive and sophisticated legal analysis of the crime s definition as well as the provisions governing the ICC s exercise of jurisdiction over the crime It explores the desirability of holding individuals to account for unlawful uses of inter State armed force the geo political significance of the crime and a range of practical issues likely to arise in prosecutions before both the ICC and domestic courts This book is highly relevant to all academics and practitioners interested in the crime of aggression as well as broader issues relating to the prohibition of the use of force international criminal law and the ICC

**Education and Society in Post-Mao China** Edward Vickers,Zeng Xiaodong,2017-06-26 The post Mao period has witnessed rapid social and economic transformation in all walks of Chinese life much of it fuelled by or reflected in changes to the country s education system This book analyses the development of that system since the

abandonment of radical Maoism and the inauguration of Reform and Opening in the late 1970s The principal focus is on formal education in schools and conventional institutions of tertiary education but there is also some discussion of preschools vocational training and learning in non formal contexts The book begins with a discussion of the historical and comparative context for evaluating China s educational achievements followed by an extensive discussion of the key transitions in education policymaking during the Reform and Opening period This informs the subsequent examination of changes affecting the different phases of education from preschool to tertiary level There are also chapters dealing specifically with the financing and administration of schooling curriculum development the public examinations system the teaching profession the phenomenon of marketisation and the international dimension of Chinese education The book concludes with an assessment of the social consequences of educational change in the post Mao era and a critical discussion of the recent fashion in certain Western countries for hailing China as an educational model The analysis is supported by a wealth of sources primary and secondary textual and statistical and is informed by both authors wide ranging experience of Chinese education As the first monograph on China s educational development during the forty years of the post Mao era this book will be essential reading for all those seeking to understand the world s largest education system It will also be crucial reference for educational comparativists and for scholars from various disciplinary backgrounds researching contemporary Chinese society

**Annual Performance Plan** Mpumalanga (South Africa). Department of Education,2013 Public Examinations Examined Thomas Kellaghan,Vincent Greaney,2019-11-19 High stakes public examinations exert a dominant influence in most education systems They affect both teacher and student behavior especially at the middle and upper levels of secondary education The content of past examinations tends to dictate what is taught and how it is taught and more important what is learned and how it is learned By changing aspects of these examinations especially their content and format education systems can have a strong positive impact on teacher behavior and student learning help raise student achievement levels and better prepare students for tertiary level education and for employment Examination agencies many of which have followed the same procedures over decades can learn from the successes and failures of other systems This book addresses current issues related to the development administration scoring and usage of these high stakes public examinations identifying key issues and problems related to examinations in many emerging market economies as well as in advanced economies The book s primary audience consists of public examination officials on national regional and state examination boards but the book should also be of interest to senior education policy makers concerned with certification and learning achievement standards to academics and researchers interested in educational assessment to governmental and education agencies responsible for student selection and to professionals at development organizations This extremely well written and comprehensive book offers a timely review of the diversity of public examination practices worldwide of the tensions between examinations and learning and of the technical expertise involved in the creation of valid reliable and fair

assessments It reminds us that as the diploma disease takes hold with an ever greater intensity at every stage of education worldwide and the commercial business of testing flourishes those concerned with educational quality and meaningful learning must be on guard to prevent the assessment tail wagging the educational dog Angela W Little Professor Emerita Institute of Education University College London This book is very well structured and written and draws on the authors remarkable global knowledge across countries and histories It will be a great asset both to administrators responsible for examinations and to academics and other professionals who seek to understand the nature and impact of examinations of different types and in different settings Mark Bray UNESCO Chair Professor of Comparative Education University of Hong Kong and former Director UNESCO International Institute for Educational Planning I am sure that Public Examinations Examined which thoroughly analyzes the practice of public examinations in different countries and makes profound and well grounded conclusions will arouse very great interest and will serve to further improve public examinations Victor Bolotov Distinguished Professor Higher School of Economics National Research University Moscow member Russian Academy of Education and former Deputy Minister of Education Russian Federation

#### Turn-taking in human communicative interaction

Judith Holler, Koen H. Kendrick, Marisa Casillas, 2016-05-09 The core use of language is in face to face conversation This is characterized by rapid turn taking This turn taking poses a number central puzzles for the psychology of language Consider for example that in large corpora the gap between turns is on the order of 100 to 300 ms but the latencies involved in language production require minimally between 600 ms for a single word or 1500 ms for a simple sentence This implies that participants in conversation are predicting the ends of the incoming turn and preparing in advance But how is this done What aspects of this prediction are done when What happens when the prediction is wrong What stops participants coming in too early If the system is running on prediction why is there consistently a mode of 100 to 300 ms in response time The timing puzzle raises further puzzles it seems that comprehension must run parallel with the preparation for production but it has been presumed that there are strict cognitive limitations on more than one central process running at a time How is this bottleneck overcome Far from being easy as some psychologists have suggested conversation may be one of the most demanding cognitive tasks in our everyday lives Further questions naturally arise how do children learn to master this demanding task and what is the developmental trajectory in this domain Research shows that aspects of turn taking such as its timing are remarkably stable across languages and cultures but the word order of languages varies enormously How then does prediction of the incoming turn work when the verb often the informational nugget in a clause is at the end Conversely how can production work fast enough in languages that have the verb at the beginning thereby requiring early planning of the whole clause What happens when one changes modality as in sign languages with the loss of channel constraints is turn taking much freer And what about face to face communication amongst hearing individuals do gestures gaze and other body behaviors facilitate turn taking One can also ask the phylogenetic question how did such a system evolve There seem to be

parallels analogies in duetting bird species and in a variety of monkey species but there is little evidence of anything like this among the great apes All this constitutes a neglected set of problems at the heart of the psychology of language and of the language sciences This Research Topic contributes to advancing our understanding of these problems by summarizing recent work from psycholinguists developmental psychologists students of dialog and conversation analysis linguists phoneticians and comparative ethologists    *The Botswana Law Reports* ,2013    **Sessional Papers** Great Britain. Parliament. House of Commons,1910    **Southeast Asian Economic Outlook 2013 With Perspectives on China and India** OECD,2013-04-08 This edition of the Southeast Asian Economic Outlook examines medium term growth prospects recent macroeconomic policy challenges and structural challenges including human capital infrastructure and SME development    **Parliamentary Papers** Great Britain. Parliament. House of Commons,1908    **An Illusion of Safety** John Borrie,Tim Caughley,2014 United Nations publications Sales no GV E 14 0 1    **The Albany Law Journal** ,1898    *Unesco Technical Papers in Marine Science* Unesco,1974    Economic Survey ,2018    *Albany Law Journal* ,1893    **The Law Times** ,1873    *The Oklahoma Gazette* ,1980

2013 Preparatory Exam Question Paper: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. 2013 Preparatory Exam Question Paper : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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