

Subject: Mathematics General  
Paper: B

Time Allowed: 3 Hours  
Maximum Marks: 100

Note: Attempt Six questions, selecting Three questions from each section.

## SECTION-I

Q.1(a) Find the coordinates of a point dividing  $P_1(x_1, y_1, z_1)$  and  $P_2(x_2, y_2, z_2)$ , externally in the ratio  $m_2 : m_1$ . (9)

(b) Find the equation of a straight line passing through the points  $P_1(x_1, y_1, z_1)$ ,  $P_2(x_2, y_2, z_2)$  and the coordinates of the point where this line cuts the  $yz$ -plane. (8)

Q.2(a) Find the direction cosines of the line given by the equations  $x+3y-z+5=0$ ,  $2y+z=3$ . (9)

(b) Derive the vector perpendicular to two given vectors / lines. (8)

Q.3(a) Find the equation of plane containing the lines  $\frac{x+2}{2} = \frac{3-y}{3} = \frac{z}{2}$ ,  $\frac{x+2}{3} = \frac{y-3}{2} = \frac{z}{2}$ . (9)

(b) Find the equations of line passing through the points  $(2, -3, 2)$  and perpendicular to each of the lines  $5x = y+3 = 2-z$ ,  $x+3 = 1-2y = 1+z$ . (8)

Q.4(a) Find the shortest distance between the lines  $\frac{x-1}{1} = \frac{y-2}{2} = \frac{z-3}{3}$ ,  $\frac{x}{-1} = \frac{1-y}{1} = \frac{z-2}{-2}$ . (9)

(b) Spherical polar coordinates of a point are  $(3, \frac{\pi}{6}, \frac{\pi}{4})$ , find its cylindrical coordinates. (8)

Q.5(a) Define "Surface, Sphere" with at least one example in each. (9)

(b) Find the equation of sphere of the centre is on the line  $x=y=z$  and it passes through the points  $(5, 3, 0)$  and  $(-1, 4, 1)$ . (8)

Q.6(a) Find two lines through the points  $(\sqrt{2}, \sqrt{2}, \sqrt{3})$  lying on the hyperboloid  $x^2 + y^2 - z^2 = 1$ . (9)

(b) Derive the equation of a plane in standard form i.e.  $lx + my + nz = P$ . (8)

## SECTION-II

Q.7(a) Find the cube roots of  $-i$ . (b) Find the 6<sup>th</sup> root of  $-1$ . (9+8)

Q.8(a) Solve  $x \sin y dx + (x^2 + 1) \cos y dy = 0$ . (b) Solve  $\frac{dy}{dx} = \frac{x-2y+5}{2x+y-1}$ . (9+8)

Q.9(a) Solve  $(D^3 + D^2 - 4D - 4)y = e^{2x} \cos 3x$ . (8)

(b) Solve  $(D^2 + D - 12)y = 0$ , if  $y(2) = 2$ ,  $y'(2) = 0$ . (8)

Q.10(a) Show that the matrix  $A = \begin{bmatrix} 1 & -2 & -6 \\ -3 & 2 & 9 \\ 2 & 0 & -3 \end{bmatrix}$  is periodic of period 2. (8)

(b) Reduce the matrix,  $A = \begin{bmatrix} 6 & 3 & -4 \\ -4 & 1 & -6 \\ 1 & 2 & -3 \end{bmatrix}$  into Echelon Form. (8)

Q.11(a) Find the solution of the following system. (8)

$$2x_1 + x_2 + x_3 = 4$$

$$2x_1 + 4x_2 - 2x_3 = 11$$

$$3x_1 - 2x_2 + 4x_3 = 11$$

(b) For what value of  $\lambda$ , system have non-trivial solution. (8)

$$(1-\lambda)x_1 + x_2 = 0$$

$$x_1 + (1-\lambda)x_3 = 0$$

Q.12(a) Show that  $\begin{vmatrix} 1 & a & a^2 \\ 1 & b & b^2 \\ 1 & c & c^2 \end{vmatrix} = (a-b)(b-c)(c-a)$ . (8)

(b) If  $A = \begin{bmatrix} 2 & 3 & 4 \\ 1 & 2 & 0 \\ 3 & 1 & 5 \end{bmatrix}$ , Find  $A^{-1}$ . (8)

# Mathematics Paper 2015 Supplementary

**L Cohen**



## Mathematics Paper 2015 Supplementary:

*Catalogue of Scientific Papers (1800-1900): Supplementary volume. 1800-1883* Royal Society (Great Britain), 1921

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### **Educart NEET 37 Years Biology Solved Papers (PYQs) Chapterwise and Topicwise for NEET 2025 Exam** Educart, Dr. Rakshita Singh, 2024-07-25      *Schubert Calculus and Its Applications in Combinatorics and Representation Theory* Jianxun Hu, Changzheng Li, Leonardo C.

Mihalcea, 2020-10-24 This book gathers research papers and surveys on the latest advances in Schubert Calculus presented at the International Festival in Schubert Calculus held in Guangzhou China on November 6 10 2017 With roots in enumerative geometry and Hilbert's 15th problem modern Schubert Calculus studies classical and quantum intersection rings on spaces with symmetries such as flag manifolds The presence of symmetries leads to particularly rich structures and it connects Schubert Calculus to many branches of mathematics including algebraic geometry combinatorics representation theory and theoretical physics For instance the study of the quantum cohomology ring of a Grassmann manifold combines all these areas in an organic way The book is useful for researchers and graduate students interested in Schubert Calculus and more generally in the study of flag manifolds in relation to algebraic geometry combinatorics representation theory and mathematical physics      *Glimpses into Primary School Teacher Education in South Africa* Sarah Gravett, Elizabeth

Henning, 2020-11-05 This book explores the current landscape of Initial Teacher Education ITE in primary schools in South Africa Considering recent policy directives and initiatives it highlights the dilemmas of ITE for the primary school and gives a thorough account of innovations and initiatives to improve ITE The book presents what works best for quality preparation of teachers in the Global South where many children rely on their teachers and school life to break the cycle of poverty Chapters draw on evidence from workplace learning pre service study and primary school teacher education policy to highlight examples of promising change in teacher education in South Africa addressing the clichés of theory versus practice head on This book successfully brings out the challenging aspects of teacher education for childhood learning which has otherwise been regarded as the softer option for a career in education This book will be of great interest for academics researchers and post graduate students in the fields of teacher education African education educational policy international education and comparative education      *ICEL2015-10th International Conference on e-Learning* Dr Carlton

Watson, 2015-06-12 These proceedings represent the work of researchers participating in the 10th International Conference on e Learning ICEL 2015 which is being hosted this year by the College of the Bahamas Nassau on the 25 26 June 2015 ICEL is a recognised event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings display their work in progress and discuss conceptual advances in the area of e Learning It

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 to be highly useful for the CTET Paper 2 exam as it will help in achieving the good rank in the exam **TABLE OF CONTENT**

Solved Paper 2019 December Solved Paper 2019 July Solved Paper 2018 December Solved Paper 2016 September Child Development and Pedagogy English Language and Pedagogy Hindi Bhasha evm Shiksha Shastra Mathematics and Pedagogy Science and Pedagogy Practice Sets 1 2      **Community series in immunotherapy with checkpoint inhibitors for non-small cell lung cancer, colon cancer and esophageal cancer, volume II** Xuelei Ma,Benjamin Frey,Udo S. Gaipf,Hubing Shi,2023-07-27      **Master Guide for UPTET Paper 1 (Class 1 - 5 teachers) with Past Questions** Disha Experts,2021-08-01      **OECD Economic Surveys: Luxembourg 2015** OECD,2015-03-27 This OECD Economic Survey of Luxembourg examines recent economic developments policies and prospects Special chapters cover of the financial sector and diversification of the economy      **CTET Success Master Maths and Science Paper 2 for Class 6 to 8 for 2021 Exams** Arihant Experts,2021-05-26 1 Success Master Study Guides focus in the preparation of CTET teaching Exam 2 This book deals with CTET Mathematics and Science Paper 2 Classes 6 8 3 Divided into 5 main Sections completely prepared on the latest exam pattern 4 Provides Previous years Solved Papers 2 Practice Sets and more than 3000 MCQs are given for thorough practice CTET provides you with an opportunity to make a mark as an educator while teaching in Central Government School Prepared as per National Curriculum Framework here s representing the updated edition of Success Master CTET Mathematics Science Paper II Class VI VIII that serves as a study guide for the candidates who are willing to appear for the exam this year The book provides focused study material dividing the entire syllabus into 5 majors providing the complete coverage With more than 3000 MCQs are provided for the quick revision of the concepts Chapterwise coverage of the previous Years questions along with the Trend Analysis help aspirants for better preparation Lastly Solved Paper 2021 2 Practice Sets are given leaving no stones untouched Preparation done from this book proves to be highly useful for CTET Paper 1 in achieving good rank in the exam TOC Solved Paper 2021 January Solved Paper 2019 December Solved Paper 2019 July Solved Paper 2018 December Solved Paper 2016 September Child Development and Pedagogy English Language and Pedagogy Hindi Bhasha evm Shiksha shastra Mathematics and Pedagogy Science and Pedagogy Practice Sets 1 2

**ECGBL2015-9th European Conference on Games Based Learning** Robin Munkvold and Line Kolås,2015-09-18 These proceedings represent the work of researchers participating in the 9th European Conference on Games Based Learning which is being hosted this year by Nord Trondelag University College Steinkjer Norway on the 8 9 October 2015 The Conference has become a key platform for individuals to present their research findings display their work in progress and discuss conceptual advances in many different areas and specialties within Games Based Learning It also offers the opportunity for like minded individuals to meet discuss and share knowledge ECGBL continues to evolve and develop and the wide range of papers and topics will ensure an interesting two day conference In addition to the main streams of the conference there are mini tracks focusing on the areas of the design of multiplayer collaborative serious games applied Games and gamification the teacher s role in game based learning games for STEM Science Technology Engineering

Mathematics learning assessment of digital game based learning and pervasive and ubiquitous gaming for learning In addition to the presentations of research we are delighted to host the third year of the Serious Game competition which provides an opportunity for educational game designers and creators to participate in the conference and demonstrate their game design and development skills in an international competition This competition is again sponsored by SEGAN Serious Games Network With an initial submission of more than 60 games 28 finalists will present their games at the conference Prizes will be awarded to the games judged to demonstrate the best quality and originality of game play itself and the positioning and articulation of the game s contribution to the educational domain With an initial submission of 190 abstracts after the double blind peer review process there are 75 research papers 15 PhD research papers 4 Non Academic papers and 8 work in progress papers published in these Conference Proceedings These papers represent research from more than 40 countries including Australia Austria Belgium Brazil Bulgaria Canada Czech Republic Denmark Finland France Germany Greece Hungary Ireland Israel Italy Japan Malaysia Norway Portugal Russia Saudi Arabia Slovakia Slovenia South Africa Spain Sweden Switzerland Taiwan ROC The Netherlands The Netherlands United Arab Emirates UK and USA

**Shadow Education as Worldwide Curriculum Studies** Young Chun Kim, Jung-Hoon Jung, 2019-02-21 This book theorizes shadow education as a new component of curriculum expanding the concept of curriculum to include this type of learning Curriculum scholars and theorists have largely disregarded shadow education as a valid topic of scholarly attention despite its massive growth worldwide But shadow education has become a global phenomenon with ever increasing numbers of student participants it complements school based curricula in many cases going beyond Thus Jung and Kim argue that shadow education requires rigorous analysis by curriculum studies scholars This volume analyzes the state and importance of shadow education in countries around the world its representative forms and industries private tutoring institutes home visit private tutoring Internet based private tutoring subscribed learning programs after school programs its characteristic forms in terms of curriculum and its roles in student learning It also explores various features of shadow education based on an eight year ethnographic study in South Korea

*Algebraic and Geometric Methods in Discrete Mathematics* Heather A. Harrington, Mohamed Omar, Matthew Wright, 2017-03-16 This volume contains the proceedings of the AMS Special Session on Algebraic and Geometric Methods in Applied Discrete Mathematics held on January 11 2015 in San Antonio Texas The papers present connections between techniques from pure mathematics and various applications amenable to the analysis of discrete models encompassing applications of combinatorics topology algebra geometry optimization and representation theory Papers not only present novel results but also survey the current state of knowledge of important topics in applied discrete mathematics Particular highlights include a new computational framework based on geometric combinatorics for structure prediction from RNA sequences a new method for approximating the optimal solution of a sum of squares problem a survey of recent Helly type geometric theorems applications of representation theory to voting theory and game theory a

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*Building the Foundation: Whole Numbers in the Primary Grades* Maria G. Bartolini Bussi, Xu Hua  
Sun, 2018-03-29 This twenty third ICMI Study addresses for the first time mathematics teaching and learning in the primary school and pre school setting while also taking international perspectives socio cultural diversity and institutional constraints into account One of the main challenges of designing the first ICMI primary school study of this kind is the complex nature of mathematics at the early level Accordingly a focus area that is central to the discussion was chosen together with a number of related questions The broad area of Whole Number Arithmetic WNA including operations and relations and arithmetic word problems forms the core content of all primary mathematics curricula The study of this core content area is often regarded as foundational for later mathematics learning However the principles and main goals of instruction on the foundational concepts and skills in WNA are far from universally agreed upon and practice varies substantially from country to country As such this study presents a meta level analysis and synthesis of what is currently known about WNA providing a useful base from which to gauge gaps and shortcomings as well as an opportunity to learn from the practices of different countries and contexts



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