

# SUBJECTIVE QUESTION PAPER

B.Sc. (Hons.) Final Examination 2024, Semester-IV

Subject: Elementary Mathematics

Course code: EMATH-2201

Time Allowed: 155 minutes

Max Marks: 100

Instructions: Attempt any FOUR questions.

Q.2(a) Solve the following equation by completing the square:  $x^2 - x = 2$ .

(b) Find the values of  $a$  and  $b$  if  $x - 2$  and  $x + 2$  are factors of the polynomial  $x^3 - 4x^2 + ax + b$ .

Q.3(a) Solve the following system of equations:  $2x - y = 4$  ;  $2x^2 - 4xy - y^2 = 5$ .

(b) A factory makes 560 units in 7 days with the help of 20 machines. How many units can be made in 10 days with the help of 18 machines?

Q.4(a) How many 5-digit numbers can be formed from the digits 2, 2, 3, 3, 4, 4?

(b) The Governor of the Punjab calls a meeting of 12 officers. In how many ways can they be seated at a round table?

(c) There are 30 girls and 12 boys in a class. One third of the boys and half of the girls have blue eyes. Find the probability that one student chosen at CR is either a boy or has blue eyes.

Q.5(a) The members of a club are 12 boys and 8 girls. In how many ways can a committee of 3 boys and 2 girls be formed?

(b) Use mathematical induction to prove that  $1 + 3 + 5 + \dots + (2n - 1) = n^2$  for all  $n \in \mathbb{N}$ .  
Find the term involving  $x^4$  in the expansion of  $(2 - 3x)^7$ .

Q.6(a) The area and width of a rectangle are  $225\text{m}^2$  and  $5\text{m}$ , respectively. Find the length of the rectangle.

(b) Find the derivative of the following function:  $y = (x + 1)(x + 2)$ .

(c) Evaluate the following integral:  $\int (3x^2 - 2x^{\frac{1}{2}} + 5) dx$ .

# Mathemetice Lite Papergrade11

**Michal Rosen-Zvi**



## **Mathemetice Lite Papergrade11:**

*International Perspectives on Teaching and Learning for Mathematical Literacy*, 2024-10-02 Mathematics plays an important role in today s world and is used in daily life more than is often appreciated Mathematical literacy denotes the competence to deal with the mathematical issues of life in modern society The underlying purpose of this book is to support the development of rich understandings and practices of how an education for mathematical literacy can be realised The collected works emerging from several educational systems offer a fresh perspective on mathematical literacy and the chapters include practical examples that teachers pre service teachers and teacher educators might adapt to their own needs

**FCS Mathematical Literacy L4**, 2009      Research for Educational Change Jill Adler, Anna Sfard, 2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perenial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research      *Resources in Education*, 2001      **Math Educ**, 2007 Contains abstracts in the field of mathematics education extracted from documents worldwide      Manitoba School Journal, 1949      **Reader's Guide to Periodical Literature Supplement**, 1923      **Quantitative Literacy** Bernard L. Madison, Lynn Arthur Steen, 2003      **Guide to the 1992 Illinois State Assessment**, 1992      **Kansas Schools**, 1957      International Catalogue of Scientific Literature, 1901-1914, 1909      Report of the Committee of Council on Education in Scotland Great Britain. Scottish Education Dept, 1924      *Readers' Guide to Periodical Literature*, 1916 Author and subject index to a selected list of periodicals not included in the Readers guide and to composite books      *Sessional Papers* Great Britain. Parliament. House of Commons, 1900      **Parliamentary Papers** Great Britain. Parliament. House of Commons, 1920      **Southwestern School Journal**, 1898      Report of the Intermediate Education Board for Ireland for the Year ..., 1885

**Report of the Committee of Council on Education in Scotland** Great Britain. Scottish Education Department,1908  
**The Academy and Literature** ,1893      Reference Catalogue of Current Literature ,1913

Mathemetice Lite Papergrade11: 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 popular books, exploring the captivating narratives that have charmed audiences this year. Mathemetice Lite Papergrade11 : Colleen Hoover "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 skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Mathemetice Lite Papergrade11 : 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 captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mathemetice Lite Papergrade11 : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 engaging 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 masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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