

MATHEMATICS

Paper & Solution

Series: HRL

Time: 3 Hrs.

Code: 30/1

Max. Marks: 80

General Instructions :

- (i) All questions are compulsory.
- (ii) The question paper consists of 30 questions divided into four sections — A, B, C and D. Section A comprises of ten questions of 1 mark each, Section B comprises of five questions of 2 marks each, Section C comprises of ten questions of 3 marks each and Section D comprises of five questions of 6 marks each.
- (iii) All questions in Section A are to be answered in one word, one sentence or as per the exact requirement of the question.
- (iv) There is no overall choke. However, an internal choice has been provided in one question of 2 marks each, three questions of 3 marks each and two questions of 6 marks each. You have to attempt only one of the alternatives in all such questions.
- (v) In question on construction, the drawings should be neat and exactly as per the given measurement.
- (vi) Use of calculators is not permitted.

SECTION – A

Questions number 1 to 10 carry 1 mark each.

1. Find the [HCF $\times$ LCM] for the numbers 100 and 190.**Solution:**

Given two numbers 100 and 190

Product of 100 and 190

$$\therefore \text{HCF} \times \text{LCM} = 100 \times 190 \\ = 19000$$

2. If 1 is a zero of the polynomial $p(x) = ax^2 - 3(a-1)x - 1$, then find the value of a .**Solution:**If $x = 1$ is the zero of the polynomial $p(x) = ax^2 - 3(a-1)x - 1$ Then $p(1) = 0$

$$\therefore a(1)^2 - 3(a-1) - 1 = 0$$

$$-2a + 2 = 0$$

$$a = 1$$

3. In ΔLMN , $\angle L = 50^\circ$ and $\angle N = 60^\circ$. If $\Delta LMN \sim \Delta PQR$, then find $\angle Q$.**Solution:**

Maths Paper 2009

Liyong Dong

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Maths Paper 2009:

Mathematics Across the Curriculum Sue Fox, Liz Surtees, 2010-05-06 Mathematics is a core subject and using and applying mathematics in problem solving activities is crucial in enabling children to use their knowledge and skills in a range of situations Mathematics Across the Curriculum shows how to teach mathematical concepts through different subjects and discussing the reasoning and research behind using problem solving and investigation teaching techniques Best practice for planning and assessment classroom organisation and practice and use of resources are all discussed with clear links to recent research and government standards and initiatives Case studies from practicing teachers enable readers to easily relate the theoretical information to their classroom and teaching Mathematics Across the Curriculum is essential reading for all trainee and newly qualified teachers seeking to teach engaging inspiring and challenging mathematics lessons It will also be a useful resource for established teachers embarking on their Masters in Teaching and Learning MTL *Supporting Early Mathematical Development* Caroline McGrath, 2015-10-14 Supporting Early Mathematical Development is an essential text combining theory and practice to enable successful mathematical education for children from birth to 12 years This text considers how students academics parents and professionals can develop their mathematical thinking practice whilst acknowledging there will always be a road yet to travel we will always be practising the craft of teaching mathematics Charting the delivery of mathematical development in playgroups children s centres nurseries and primary schools the book promotes an effective pedagogy for mathematics This new edition provides a conceptualisation of mathematics and places a fresh emphasis on mathematical literacy to empower children New chapters include the following Mediators of Mathematical Thinking Understanding Pattern Pre Algebraic and Algebraic Thinking Naming Renaming and Processing Numbers Statistics Statistical Diagrams and Probability Measure Geometry Throughout the book Caroline McGrath navigates the complexity of teaching and learning mathematics through careful thought and consideration of mediators of mathematical thinking This supportive book is designed for educators who want to know how to reconstruct mathematical ideas with children and respond in the moment Returning to the root of understanding using the adaptive pedagogical style recommended in this text you can create satisfying mathematical experiences for children *Karl Marx and Mathematics* Pradip Bakshi, 2020-11-01 This collection of various texts on Karl Marx and Mathematics is the revised and extended second edition of the Special Supplement to Karl Marx Mathematical Manuscripts 1994 Calcutta Viswakos titled Marx and Mathematics The sources of the texts included in the three parts of this collection and some biographical information about their respective authors have been indicated at the end of each text The emergence and development of the Ethnomathematics movement continue to change our understanding of the history of evolution of plural mathematics on planet earth since the Neolithic age Rediscovery and study of some of the neglected source texts have further energized investigations on the subsequent history of mathematical cultures including those on the histories of algebra and analysis in some of the ancient and medieval

languages of Asia like Sanskrit Arabic and Malayalam Consequently it is now possible to indicate some of the larger gaps in the dominant understanding of history of mathematics not only in Marx's time but also at the time of editing Marx's mathematical manuscripts in the twentieth century and even today Finally the emergence and development of mathematical and statistical software packages are vigorously reshaping our ways of conceptualizing and doing mathematics towards an unknown future It is time now for taking yet another look at all mathematical text from the past and that includes the mathematical manuscripts of Marx These texts have been divided into three parts Part one contains some topical texts related to the history of emergence development editing publication and reception of the mathematical manuscripts of Karl Marx Part two contains a selection of five articles reflecting some of the investigations inspired by these manuscripts in Russia India and France Part three contains five articles on plural mathematics before and after Karl Marx 1818 1883 The texts in this collection are followed by two appendices containing two bibliographies one on Hegel and mathematics and the other on mathematics and semiotics Please note This title is co published with Aakar Books New Delhi Taylor Francis does not sell or distribute the print edition in South Asia India Sri Lanka Nepal Bangladesh Pakistan Maldives or Bhutan

Primary Mathematics Penelope Baker, Rosemary Callingham, Tracey Muir, 2023-09-07 Primary Mathematics Integrating Theory with Practice is a comprehensive introduction to teaching mathematics in Australian primary schools Closely aligned with the Australian Curriculum it provides a thorough understanding of measurement geometry patterns and algebra data and statistics and chance and probability The fourth edition provides support for educators in key aspects of teaching planning assessment digital technologies diversity in the classroom and integrating mathematics content with other learning areas It also features a new chapter on the role of education support in the mathematics classroom Each chapter has been thoroughly revised and is complemented by classroom snapshots demonstrating practical application of theories activities to further understanding and reflection questions to guide learning New in this edition are Concepts to consider which provide a guided explanation and further discussion of key concepts to support pre and in service teachers learning and teaching of the fundamentals of mathematics

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Intelligent Computer Mathematics James H. Davenport, William M. Farmer, Florian Rabe, Josef Urban, 2011-07-18 This

book constitutes the joint refereed proceedings of three international events namely the 18th Symposium on the Integration of Symbolic Computation and Mechanized Reasoning Calculemus 2011 the 10th International Conference on Mathematical Knowledge Management MKM 2011 and a new track on Systems and Projects descriptions that span both the Calculemus and MKM topics all held in Bertinoro Italy in July 2011 All 51 submissions passed through a rigorous review process A total of 15 papers were submitted to Calculemus of which 9 were accepted Systems and Projects track 2011 there have been 12 papers selected out of 14 submissions while MKM 2011 received 22 submissions of which 9 were accepted for presentation and publication The events focused on the use of AI techniques within symbolic computation and the application of symbolic computation to AI problem solving the combination of computer algebra systems and automated deduction systems and mathematical knowledge management respectively

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Teaching Primary Mathematics Sylvia Turner,2012-11-13 Teaching Primary Mathematics covers what student teachers really need to know and why including approaches to teaching and learning planning and assessment and using resources in maths teaching It also provides a brief historical overview of the teaching of mathematics and examines strategies to enhance learning and development as a confident mathematician in the primary classroom Informed by seminal and current research and recent developments in education policy the book also explores the role of mathematics within the primary curriculum the development of mathematics as a subject of study the knowledge that can be gained from considering international approaches to mathematics This is essential reading for all students on primary initial teacher education courses including undergraduate BEd BA with QTS postgraduate PGCE SCITT and School Direct and employment based routes into teaching Sylvia Turner is Senior Lecturer in the Faculty of Education at the University of Winchester

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