



UNIVERSITY OF THE PUNJAB

Seventh Semester 2017

Examination: B.S. 4 Years Programme

Roll No.

PAPER: Partial Differential Equations
Course Code: MATH-402

TIME ALLOWED: 2 hrs. & 30 mins.
MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet provided.

NOTE: Attempt all questions from each section.

SECTION II-Questions with Short Answers

1. Find the PDE for $u = ax + (1-a)y + b$. (4 marks)
2. Find the integral surface for $\frac{dx}{xy-zx} = \frac{dy}{xz-yz} = \frac{dz}{xz-xy}$. (4 marks)
3. Find the canonical form for $x_{xx} - 5x_{xy} + 6x_{yy} = 0$. (4 marks)
4. Evaluate the complete integral surface of the PDE, $x(y^2 + z)p - y(x^2 + z)q = (x^2 - y^2)z$ containing $x + y = 0$, $z = 1$. (4 marks)
5. Define linear, non-linear and quasi linear PDE with atleast one example. (4 marks)

SECTION III-Questions with Brief Answers

6. Solve $(D_x D_y + D_x - D_y - 1)u = xy$. (6 marks)
7. Convert the Laplace equation $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = 0$, into polar form. (6 marks)
8. Reduce into normal form and find an integral surface of $2u_{xx} - 2yu_{xy} - u_y = 0$ which contains $u(x, 1) = x^2/2$, $u_y(x, 1) = 2$. (6 marks)
9. Solve (6 marks)

$$(y^2 + z^2 - x^2)p - 2xyzq + 2xz = 0.$$

10. Interpret and solve the following equation: (6 marks)

$$\frac{1}{c^2} u_t = u_{xx} + u_{yy}, \quad u(0, y, t) = u(a, y, t) = 0, \quad u(x, y, 0) = f(x, y), \\ u(x, 0, t) = u(x, b, t) = 0, \quad t > 0 \quad x \in (0, a), \quad y \in (0, b).$$

Mathematics 402past Papers

Lotfi A. Zadeh



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mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans

The Mathematical Gazette, 1904 The AMTE Handbook of Mathematics Teacher Education Babette M. Benken, 2024-02-01 This new volume of The Association of Mathematics Teacher Educators AMTE Professional Book Series is a critical and timely resource that paves the way and guides the future of mathematics teacher education The collection of work in this AMTE Handbook of Mathematics Teacher Education reflects on research and what we know about how best to prepare and support both mathematics teachers and mathematics teacher educators and presents what is happening in the field Examples included in the 22 chapters highlight how we are preparing teachers across multiple contexts e g within district in content courses for the major and grade ranges K 20 and all chapters highlight relevant connections to the AMTE Standards for Preparing Teachers of Mathematics Most importantly this volume explores what we do not yet fully understand and where we are going In essence it considers how we can move the field forward The 95 contributing authors range from graduate students to those who have served as leaders in the field in multiple ways for many years Authors include K 12 teachers school administrators district leaders graduate students higher education faculty and professional development facilitators

Handbook of International Research in Mathematics Education Lyn D. English, David Kirshner, 2015-07-30 This third edition of the Handbook of International Research in Mathematics Education provides a comprehensive overview of the most recent theoretical and practical developments in the field of mathematics education Authored by an array of internationally

recognized scholars and edited by Lyn English and David Kirshner this collection brings together overviews and advances in mathematics education research spanning established and emerging topics diverse workplace and school environments and globally representative research priorities New perspectives are presented on a range of critical topics including embodied learning the theory practice divide new developments in the early years educating future mathematics education professors problem solving in a 21st century curriculum culture and mathematics learning complex systems critical analysis of design based research multimodal technologies and e textbooks Comprised of 12 revised and 17 new chapters this edition extends the Handbook s original themes for international research in mathematics education and remains in the process a definitive resource for the field

Mathematical Reviews ,2007 **Wartime Report ... A-**. United States. National Advisory Committee for Aeronautics, **NACA Wartime Report** United States. National Advisory Committee for Aeronautics,

Bulletin (new Series) of the American Mathematical Society ,1905 **Computing with Words in Information/Intelligent Systems 1** Lotfi A. Zadeh,2013-03-09 These two volumes consisting of Foundations and Applications provide the current status of theoretical and empirical developments in computing with words In philosophy the twentieth century is said to be the century of language This is mainly due to Wittgenstein who said The meaning of a word is its use in the language game The concept game is a concept with blurred edges In the first phrase the language game implies the everyday human activity with language and in the latter game simply implies an ordinary word Thus Wittgenstein precisely stated that a word is fuzzy in real life Unfortunately this idea about a word was not accepted in the conventional science We had to wait for Zadeh s fuzzy sets theory Remembering Wittgenstein s statement we should consider on the one hand the concept of computing with words from a philosophical point of view It deeply relates to the everyday use of a word in which the meaning of a word is fuzzy in its nature *Bulletin of the American Mathematical Society* American Mathematical Society,1905 **International Catalogue of Scientific Literature [1901-14]**. ,1902 Notices of the American Mathematical Society American Mathematical Society,1984 Contains articles of significant interest to mathematicians including reports on current mathematical research *Bulletin of the Calcutta Mathematical Society* ,1920

International Catalogue of Scientific Literature ,1902 **Reviews in Number Theory, 1984-96** ,1997 These six volumes include approximately 20 000 reviews of items in number theory that appeared in Mathematical Reviews between 1984 and 1996 This is the third such set of volumes in number theory The first was edited by W J LeVeque and included reviews from 1940 1972 the second was edited by R K Guy and appeared in 1984

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100 microg kg microgram ml midazolam iv 15 mg 3 ml add 4 ml nacl 0.9 to 1 ml midazolam 5 mg 1 mg ml 5 mg 5 ml 100 microg
kg microgram ml pancuronium iv 4 mg 2 ml add 0.5 ml wfi to 0.5 ml

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 $60\text{mg} \times 10\text{ml} / 50\text{mg} = 12\text{ ml}$

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