

**END TERM / SEMESTER EXAMINATION, 2018-19**  
**MCA (SEM. / TERM-03)**  
**MCA 120 : MATHEMATICAL FOUNDATION OF COMPUTER SCIENCE**

Time : 3 Hrs.

Maximum Marks : 100

**Note :** 1. Attempt **All** sections.  
 2. Marks are indicated against each section.

**SECTION - A**

**Q.1** Answer **ANY FIVE** questions of the following: **(5×4=20)**

- (i) Write the application of Arden's theorem.
- (ii) Let  $S = \{1, 2, 3\}$  and  $A = P(S)$ . Draw the Hasse diagram of the poset  $A$  with partial order.
- (iii) Write any three applications of Minimized DFA.
- (iv) What are the quantifiers?
- (v) Prove that every subgroup is cyclic.
- (vi) Define the following:
  - (a) Power set
  - (b) Proper subset
- (vii) Describe Modulo  $n$ .

**SECTION - B**

**Q.2** Answer **ANY FIVE** questions of the following: **(5×4=20)**

- (i) Show that the hypothesis "if you do not send me an e-mail message, then I will finish writing the program", "if you do not send me an e-mail message, then I will wake up feeling refreshed" lead to the conclusion "If I do not finish writing the program, then I will wake up feeling refreshed".
- (ii) Design FA that accept set of string such that every string ends in 00 over alphabet  $\{0,1\}$ .
- (iii) Write the properties for multiplicative binary operation on  $G * G$ .
- (iv) Explain various limitations of finite automata.
- (v) Draw the graph of each of the following functions:
 

(a) $y = 3x^2$	(b) $y = -x^2$
(c) $y = x^2 - 2$	(d) $y = 5 - x^2$
(e) $y = 2x^2 + 1$	(f) $y = 1 - 2x^2$

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**Mathematical Foundations of Computer Science 1991** Andrzej Tarlecki, 1991 This volume contains the proceedings of the 16th International Symposium on Mathematical Foundations of Computer Science MFCS 91 held in Kazimierz Dolny Poland September 9 13 1991 The series of MFCS symposia organized alternately in Poland and Czechoslovakia since 1972 has a long and well established tradition The purpose of the series is to encourage high quality research in all branches of theoretical computer science and to bring together specialists working actively in the area Principal areas of interest in this symposium include software specification and development parallel and distributed computing logic and semantics of programs algorithms automata and formal languages complexity and computability theory and others The volume contains 5 invited papers by distinguished scientists and 38 contributions selected from a total of 109 submitted papers

Mathematical Foundations of Computer Science 2002 Krzysztof Diks, Wojciech Rytter, 2007-10-23 This book constitutes the refereed proceedings of the 27th International Symposium on Mathematical Foundations of Computer Science MFCS 2002 held in Warsaw Poland in August 2002 The 48 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 108 submissions All relevant aspects of theoretical computer science are addressed ranging from discrete mathematics combinatorial optimization graph theory algorithms and complexity to programming theory formal methods and mathematical logic

Mathematical Foundations of Computer Science 2004 Jirí Fiala, Václav Koubek, Jan Kratochvíl, 2004-08-06 This volume contains the papers presented at the 29th Symposium on Mathematical Foundations of Computer Science MFCS 2004 held in Prague Czech Republic August 22 27 2004 The conference was organized by the Institute for Theoretical Computer Science ITI and the Department of Theoretical Computer Science and Mathematical Logic KTIML of the Faculty of Mathematics and Physics of Charles University in Prague It was supported in part by the European Association for Theoretical Computer Science EATCS and the European Research Consortium for Informatics and Mathematics ERCIM Traditionally the MFCS symposia encourage high quality research in all branches of theoretical computer science Ranging in scope from automata formal languages data structures algorithms and computational geometry to complexity theory models of computation and applications including computational biology cryptography security and artificial

intelligence the conference offers a unique opportunity to researchers from diverse areas to meet and present their results to a general audience The scientific program of this year's MFCS took place in the lecture halls of the recently reconstructed building of the Faculty of Mathematics and Physics in the historical center of Prague with the famous Prague Castle and other celebrated historical monuments in sight The view from the windows was a challenging competition for the speakers in the light for the attention of the audience But we did not fear the result Due to the unusually tough competition for this year's MFCS the admitted presentations certainly attracted considerable interest The conference program and the proceedings consisted of 60 contributed papers selected by the Program Committee from a total of 167 submissions Mathematical Foundations of Computer Science 2000 Mogens Nielsen, 2000-08-14 This book constitutes the refereed proceedings of the 25th International Symposium on Mathematical Foundations of Computer Science MFCS 2000 held in Bratislava Slovakia in August-September 2000 The 57 revised full papers presented together with eight invited papers were carefully reviewed and selected from a total of 147 submissions The book gives an excellent overview on current research in theoretical informatics All relevant foundational issues from mathematical logics as well as from discrete mathematics are covered Anybody interested in theoretical computer science or the theory of computing will benefit from this book **Mathematical Foundations of Computer Science 2006** Rastislav Kráľovic, Paweł Urzyczyn, 2006-08-11 This book constitutes the refereed proceedings of the 31st International Symposium on Mathematical Foundations of Computer Science MFCS 2006 The book presents 62 revised full papers together with the full papers or abstracts of 7 invited talks All current aspects in theoretical computer science and its mathematical foundations are addressed from algorithms and data structures to complexity automata semantics logic formal specifications models of computation concurrency theory computational geometry and more

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