

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
b. Express $\sqrt{3} + i$ in polar form.
c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y -intercept '2' and is parallel to $4x - 8y + 3 = 0$
b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
c. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

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Educating for the 21st Century Suzanne Choo, Deb Sawch, Alison Villanueva, Ruth Vinz, 2016-10-20 All over the world governments policymakers and educators are advocating the need to educate students for the 21st first century This book provides insights into what this means and the ways 21st century education is theorized and implemented in practice The first part Perspectives Mapping our futures in the making uncovers the contradictions tensions and processes that shape 21st century education discourses The second part Policies Constructing the future through policymaking discusses how 21st century education is translated into policies and the resulting tensions that emerge from top down state sanctioned policies and bottom up initiatives The third part Practices Enacting the Future in Local Contexts discusses on the ground initiatives that schools in various countries around the world enact to educate their students for the 21st century This volume includes contributions from leading scholars in the field as well as educators from schools and those working with schools

Communication and Computing Systems B.M.K. Prasad, Krishna Kant Singh, Neelam Ruhil, Karan Singh, Richard O'Kennedy, 2017-02-15 This book is a collection of accepted papers that were presented at the International Conference on Communication and Computing Systems ICCCS 2016 Dronacharya College of Engineering Gurgaon September 9 11 2016 The purpose of the conference was to provide a platform for interaction between scientists from industry academia and other areas of society to discuss the current advancements in the field of communication and computing systems The papers submitted to the proceedings were peer reviewed by 2 3 expert referees This volume contains 5 main subject areas 1 Signal and Image Processing 2 Communication Computer Networks 3 Soft Computing Intelligent System Machine Vision and Artificial Neural Network 4 VLSI Embedded System 5 Software Engineering and Emerging Technologies **Proceedings of the Eighth International Conference on Soft Computing and Pattern Recognition (SoCPaR 2016)** Ajith

Abraham, Aswani Kumar Cherukuri, Ana Maria Madureira, Azah Kamilah Muda, 2017-08-17 This volume presents 70 carefully selected papers from a major joint event the 8th International Conference on Soft Computing and Pattern Recognition SoCPaR 2016 and the 8th International Conference on Computational Aspects of Social Networks CASoN 2016 SoCPaR CASoN 2016 which was organized by the Machine Intelligence Research Labs MIR Labs USA and Vellore Institute of Technology VIT India and held at the VIT on December 19 21 2016 It brings together researchers and practitioners from academia and industry to share their experiences and exchange new ideas on all interdisciplinary areas of soft computing and pattern recognition as well as intelligent methods applied to social networks This book is a valuable resource for practicing engineers scientists and researchers working in the field of soft computing pattern recognition and social networks **Neural Information Processing** Chu Kiong Loo, Yap Keem Siah, Kok Wai Wong, Andrew Teoh Beng Jin, Kaizhu Huang, 2014-10-21 The three volume set LNCS 8834 LNCS 8835 and LNCS 8836 constitutes the proceedings of the 20th International Conference on Neural Information Processing ICONIP 2014 held in Kuching Malaysia in November 2014 The

231 full papers presented were carefully reviewed and selected from 375 submissions. The selected papers cover major topics of theoretical research, empirical study, and applications of neural information processing research. The 3 volumes represent topical sections containing articles on cognitive science, neural networks and learning systems, theory and design applications, kernel and statistical methods, evolutionary computation, and hybrid intelligent systems, signal and image processing, and special sessions on intelligent systems for supporting decision making processes, theories and applications, cognitive robotics, and learning systems for social network and web mining.

Intelligent and Evolutionary Systems George Leu, Hemant Kumar Singh, Saber Elsayed, 2016-11-08. Over the last two decades, the field of Intelligent Systems delivered to human kind significant achievements while also facing major transformations. 20 years ago, automation and knowledge based AI were still the dominant paradigms fueling the efforts of both researchers and practitioners. Later, 10 years ago, statistical machine intelligence was on the rise, heavily supported by the digital computing and led to the unprecedented advances in and dependence on digital technology. However, the resultant intelligent systems remained designer based endeavors and thus were limited in their true learning and development abilities. Today, the challenge is to have in place intelligent systems that can develop themselves on behalf of their creators and gain abilities with no or limited supervision in the tasks they are meant to perform. Cognitive development systems and the supporting cognitive computing are on the rise today, promising yet other significant achievements for the future of human kind. This book captures this unprecedented evolution of the field of intelligent systems, presenting a compilation of studies that covers all research directions in the field over the last two decades, offering to the reader a broad view over the field while providing a solid foundation from which outstanding new ideas may emerge.

Pattern Recognition Tieniu Tan, Xuelong Li, Xilin Chen, Jie Zhou, Jian Yang, Hong Cheng, 2016-10-21. The two volume set CCIS 662 and CCIS 663 constitutes the refereed proceedings of the 7th Chinese Conference on Pattern Recognition CCPR 2016 held in Chengdu, China, in November 2016. The 121 revised papers presented in two volumes were carefully reviewed and selected from 199 submissions. The papers are organized in topical sections on robotics, computer vision, basic theory of pattern recognition, image and video processing, speech and language, emotion recognition.

Neural Information Processing Biao Luo, Long Cheng, Zheng-Guang Wu, Hongyi Li, Chaojie Li, 2023-11-14. The six volume set LNCS 14447 until 14452 constitutes the refereed proceedings of the 30th International Conference on Neural Information Processing ICONIP 2023 held in Changsha, China, in November 2023. The 652 papers presented in the proceedings set were carefully reviewed and selected from 1274 submissions. They focus on theory and algorithms, cognitive neurosciences, human centred computing, applications in neuroscience, neural networks, deep learning, and related fields.

Technology in Education. Innovations for Online Teaching and Learning Lap-Kei Lee, Leong Hou U, Fu Lee Wang, Simon K. S. Cheung, Oliver Au, Kam Cheong Li, 2020-12-16. This book constitutes extended papers from the 5th International Conference on Technology in Education ICTE 2020 held in August 2020. Due to the COVID 19 pandemic, the conference was held online.

The 30 papers presented in this volume were carefully reviewed and selected from 79 submissions They are organized in topical sections on instructional technology learning analysis and assessment learning environment open and collaborative learning technology and education **Pattern Recognition and Computer Vision** Zhouchen Lin,Liang Wang,Jian Yang,Guangming Shi,Tieniu Tan,Nanning Zheng,Xilin Chen,Yanning Zhang,2019-10-31 The three volume set LNCS 11857 11858 and 11859 constitutes the refereed proceedings of the Second Chinese Conference on Pattern Recognition and Computer Vision PRCV 2019 held in Xi an China in November 2019 The 165 revised full papers presented were carefully reviewed and selected from 412 submissions The papers have been organized in the following topical sections Part I Object Detection Tracking and Recognition Part II Image Video Processing and Analysis Part III Data Analysis and Optimization

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