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Mrs Ruby Ghuznavi

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Mr. Zafar Sobhan

Editor, Dhaka Tribune

ANNOUNCEMENT

Bangladesh Mathematical Society (BMS), founded in 1972, is the sole organization of professional mathematicians of all levels of Bangladesh. Every year it publishes one volume of a research journal "GANIT" Journal of Bangladesh Mathematical Society ISSN 1606-3694 in English, whose authorship is open to all and which is regularly reviewed in Mathematical Reviews (USA). The Society also publishes every year one volume of an educative Journal "Ganit Parikrama" for teachers and students of Mathematics.

In addition to arranging occasional symposia, seminars, workshops on specialized topics, the Society arranges every two years an international mathematics conference. BMS also holding Undergraduate Mathematics Olympiad annually since 2009. The aim of the Mathematics Olympiad is to create opportunity for our young talented students in the country to shine and show their mathematical and analytical ability and to create a nationwide awareness for the development of math skills.

In 2014, BMS has enhanced the scope for the participation in Olympiad by holding six regional mathematics Olympiads where top ten participants from each regional Olympiad took part in the national Olympiad centrally arranged at the department of Mathematics, University of Dhaka. The holding of these Olympiads on an annual basis is a challenge for BMS which intends to meet with full determination and commitment. Likewise last year, A F Mujibur Rahman Foundation (A charity dedicated to education) has promised to support BMS financially in conducting the 7th National Undergraduate Mathematics Olympiad 2015(NUMO15). The Olympiad Committee has decided to hold **six** Regional Olympiads at **six** locations throughout the country. Top ten (including a female) contestants from these Regional Olympiads will participate in the National Olympiad to be held on 11/12/2015 in the Department of Applied Mathematics, A F Mujibur Rahman Ganit Bhavan, University of Dhaka. Salient features of the 7th NUMO15 are:

Benefits of the participants:

- 'Certificates of excellence', Prize money of Tk. 10,000 and a Crest" will be given to each of the top ten participants in the final round. These top ten contestants can participate (without any registration fee) in the 19th International Mathematics Conference to be held at BRAC University, Dhaka.
- 'Certificates of appreciation' will be given to the top ten participants in each regional NUMO15.
- Certificates of participation" will be given to all the remaining participants in NUMO15.
- Lunch packet, T- shirt, folder and pen will be served to all the participants.
- Every contestant can participate in a question/answer session with famous mathematicians / professionals of the country.



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Editor, Dhaka Tribune

Venues, dates & contact persons for the NUMO:

Chittagong Region: 13th November, 2015

Department of Mathematics,
Chittagong University of Engineering & Technology (CUET)
Convener: Prof. Dr. Sunil Dhar (Cell # 01937471667)
Email: sdhar03@yahoo.com

Rajshahi Region: 19th November, 2015

Department of Mathematics,
Pabna University of Science & Technology (PUST)
Convener: Mr. M. Rashed Kabir (Cell # 01744691078)
Email: rajcumath@yahoo.com

Dhaka South Region: 20th November, 2015

Department of Mathematics
Bangladesh University of Engineering & Technology (BUET)
Convener: Prof. Dr. M. A. Hakim Khan (Cell # 01552373796)
Web: www.buet.ac.bd/math/dsrumo15
Email: mahakimkhan@gmail.com

Dhaka North Region: 27th November, 2015

Department of Mathematics
Jahangirnagar University, Savar, Dhaka
Member-Secretary: Prof. Dr. M. Abdur Rab (Cell # 01817095129)
Email: nrab_math@yahoo.com

Sylhet Region: 28th November, 2015

Department of Mathematics
Shahjalal University of Science & Technology (SUST)
Convener: Prof. Dr. M. Anowarul Islam (Cell # 01919064555)
Email: mislam32@gmail.com

Khulna Region: 4th December, 2015

Mathematics Discipline
Khulna University, Khulna
Convener: Prof. Dr. M. H. Ali Biswas (Cell # 01711948396)
Email: mhabiswas@yahoo.com

Final Round: 11th December, 2015

Department of Applied Mathematics
A F Mujibur Rahman Ganit Bhavan
University of Dhaka
Convener: Prof. Dr. M. Abdus Samad (Cell # 01552433642)
Email: masamaddu@gmail.com



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Editor, Dhaka Tribune

Modality of the Olympiad

The time allotted for each Regional Olympiad, as well as the Final Round of the Olympiad, is 90 minutes. There will be two types of problems: broad and short. There will be 6 broad problems each carrying 10 marks, and 8 short problems each carrying 5 marks. All questions are to be answered. Contents of the questions will not exceed second year level in mathematics. The problems will be set from among the topics comprising the subject areas listed below.

- 1. Vector and Analytic Geometry:** Vectors in two and in three dimensions. Scalar product. Vector product. Applications to plane geometry. General equation of second degree: Conic section. Coordinates in three dimensions: Direction cosines. Planes and straight lines in three dimensions.
- 2. Algebra:** Complex numbers. DeMoivre's theorem and applications. Polynomials and algebraic equations. Summation of algebraic and trigonometric series. Basic knowledge of groups, rings and fields. Elementary number theory. Vector spaces. Linear independence: Basis and Dimension. Linear transformations. Linear equations, Matrices and determinants.
- 3. Calculus of One Variable:** Functions and their graphs, limits, continuity, differentiation and application, integration and applications, fundamental theorems and applications. Convergence of infinite sequences and series:
- 4. Calculus of Several Variables:** Differentiation and integration of vector functions. Line, surface and volume integrals. Cylindrical polar and spherical polar coordinates. Theorems of Green, Gauss, Stokes and their applications.

(ডঃ মোঃ মনিরুল আলম সরকার)

মেম্বর-সেক্রেটারী, জাতীয় স্নাতক গণিত অলিম্পিয়াড কমিটি
বাংলাদেশ গণিত সমিতি।

এবং

অধ্যাপক, গণিত বিভাগ

বাংলাদেশ প্রকৌশল বিশ্ববিদ্যালয়, ঢাকা-১০০০।