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Date: 14.10.2015

Head
Department of CSE
BUET, Dhaka-1000.

Subject: Call for Participants for the 7th Dhaka South Regional Undergraduate Mathematics Olympiad 2015.

Dear Sir,

It is our great pleasure to inform you that the Department of Mathematics, BUET is going to organize the 7th Dhaka South Regional Undergraduate Mathematics Olympiad 2015 (DSRUMO15) for Dhaka South zone on 20th November 2015. You are requested to send a list of students (**Maximum 10**) from your **Department** for the competition. The list of students should be reached to the undersigned on or before 11th November 2015 by filling up the **registration form** (attached) individually. It is to be approved by the Head/Chairman of the Department.

Benefits and constraints (Announcement attached):

1. Students pursuing an undergraduate course in Mathematics or any related subject in Science, Engineering or Technology are eligible to participate.
2. Each participant has to register paying an amount of Tk. 150.00 before the commencement of the Olympiad on that morning (Cash or bKash 01729556717)
3. No TA and DA will be provided to the participants.
4. Local hospitality will be provided on the day of the Olympiad.
5. Certificate will be given to the participants.

Program Schedule: Date 20th November, 2015

Registration: 8:00 am to 9:00 am

Exam time: 10:00 am to 11:30 am

Prayer and lunch break: 11:30 am to 2:30 pm

Result and certificate giving ceremony: 3:00 pm to 4:30 pm

Venue: Department of Mathematics, BUET, Dhaka-1000

Announcement of the DSRUMO15 and registration form are attached herewith and are also available on www.buet.ac.bd/math/dsrumo15. Only your cooperation can make the event a success.

With best regards



(Dr. Md. Abdul Hakim Khan)

Convener, DSRUMO15

and

Professor, Department of Mathematics, BUET, Dhaka-1000

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Announcement

This year 7th National Undergraduate Mathematics Olympiad 2015 (NUMO15) is going to be conducted throughout the country with the financial co-operation of A. F. Mujibur Rahman Foundation. National Undergraduate Mathematics Olympiad Committee has decided to hold six Regional Olympiads at seven locations across the country. Top 10 contestants from these Regional Olympiads will participate in the National Olympiad to be held at University of Dhaka, Bangladesh.

It is our great pleasure to inform you that the Department of Mathematics of Bangladesh University of Engineering and Technology (BUET), Dhaka is going to organize Dhaka South Regional Undergraduate Mathematics Olympiad 2015 (DSRUMO15) in cooperation with National Undergraduate Mathematics Olympiad Committee and Bangladesh Mathematical Society.

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. Enthusiastic students of our country pursuing an undergraduate course in Mathematics or any related subject in Science, Engineering or Technology are eligible to participate in the NUMO15. Only 150 students will be allowed to sit for the DSRUMO15. Judge committee will finalize the list of contestants for the Olympiad.

Last day of registration is 11th of November 2015

Registration fee: Tk. 150.00 per student

(Pay direct or by bKash 01937555411)

The date and venue are as follows:

National Olympiad (Dhaka South Region): 20th November, 2015

Department of Mathematics, BUET, Dhaka

Eligibility for participation:

Students pursuing an undergraduate course in Mathematics or any related subject in Science, Engineering or Technology are eligible to participate.

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, writing pad 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.

Free TeleTalk Sim for each of the participant (Please bring two copies of passport size photograph and a photocopy of national ID card / national ID card of father / SSC certificate)

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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.

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and
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