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THE INTERNATIONAL INTERDISCIPLINARY „PROSOFT@NT" CONTEST
Programme
19th – 23rd February 2013

I. General Background

The main, general objective of THE INTERNATIONAL INTERDISCIPLINARY „PROSOFT@NT" CONTEST is to promote the concepts of competition and performance, following the intensive study of Mathematics, Computer Science and Physics. The target-recipients are the high school and the secondary-school students endowed with aptitudes, interests and distinctive skills in the above mentioned domains.

II. Responsibilities and Obligations

The Organizing Committee from the educational institution, as the initiator of the competition, is responsible for the good and efficient organization and progress of this particular contest. The members of the respective committee are as follows:

> a) Chairperson – headmaster
> b) Vice-Chairperson – deputy
> c) Secretary – computer technician
> d) Members – teachers of Mathematics and Computer Science
> e) Assistant teachers – teachers of different specialties, than those in the contest

For each section of the competition, there is a *Committee responsible for the subject elaboration and evaluation*, having the following structure:

> - Honorific Chairperson: university professor
> - Executive Chairperson: general inspector
> - Vice-Chairperson: special inspector in ISJ NEAMT
> - Secretary: teacher in charge with the activity of the department
> - Members: teachers in the specialty

The Committee decide upon the number of participants, they select the activities for the contest, evaluate the solutions and display the list of awards and honourable mentions.

THE MATHEMATICS CONTEST

THE INDIVIDUAL SECTION

Art. 1: The competition syllabus coincides with the Mathematics County Olympiad

Art 2: The subject for each year of study will contain 4 problems of different degrees of difficulty. The time limit is 3 hours. Half an hour is awarded for students to read and become familiar with the subjects.

Art 3: For each correct solution, 7 points will be awarded. The partial solutions (that are not complete, but still correct) will be pointed according to the marking scheme of the subjects. Any correct solution different from the one found in the marking scheme will be accepted as suitable and marked accordingly.

Art 4: The maximum score for a test is 28 points and the minimum score is 0.

Art 5: The subject elaboration and evaluation committee for each year of study will be formed by teachers who do not have any students in the contest at the respective level.

Art 6: The students who are dissatisfied with the result of the evaluation want to appeal for a re-assessment of their test will complete a form received for free, from the contest secretary office. For each contested problem the student will complete a separate form.

Art. 7: The students can contest the evaluation for each problem within the subject, the cost of the re-evaluation being 10 RON/problem. The students will receive their money back if the appeal is accepted with a score which is higher than the initial marking.

Art 8: The re-evaluation of each subject is conducted by the evaluation committee in front of the student.

Art 9: An appeal to re-evaluation is accepted (by increasing or reducing the initial score) if the difference between the initial score and the re-evaluated score exceeds 1 point. If a problem first graded with 6.5 is re-evaluated, then the finally-accepted grade is the one given by the re-evaluation committee.

Art 10: Diplomas and prizes will be awarded for each year of study.

Art 11: Under no circumstances will any attempt/situation of fraud or improper behaviour be tolerated.

Art. 12: The Chairman of the competition validates the results of the assessment.

THE TEAM SECTION

Art. 1 – Description of the competition

This section requires teams formed of three students, grades VIII-X (no more than one student in the 10th grade; and no more than two students from the same level of knowledge or grade)

Art. 2 – How to enter the competition

The enlisting in the competition will be done by sending an email from the participant school to the address: cni_pn@yahoo.com, with the personal data of each member of the team (first name, surname, grade). In this email, there must be specific reference to the member of the team who has been assigned the role of "team captain" as he/she is the one who will ensure the exchange of information between the members of the team and the board of examiners during the competition.

Article 3 – The Contest Committee

The Chairman of the Competition supervises and is responsible for the organization of the team section of the contest. She/he chooses the members of the Contest Committee which includes: six mathematics teachers, a secretary teacher and three assistant teachers.

Article 4 – The test

The team section of The Mathematics Competition includes four rounds, each of them consisting in solving one problem (algebra, geometry, logic). For each round, the assistant teachers will give the suggested problem to each team captain, at the precise time established for the beginning of the test. The time for solving the problem in each round is 20 minutes, the break between the rounds being at least 15 minutes. When the time for solving each problem is over, each team captain will give the answer paper to the assistant teachers and will accompany them to the board of examiners, who will evaluate the answers on the spot and mark the paper according to the marking scheme. The secretary of the board collects the results at the end of each round. For each round, only the problems which receive complete and correct solutions are scored.

Article 5 – The Marking Scheme

Each problem completely and correctly solved receives three points. If students come up with wrong or incomplete solutions, each problem will receive 0 points. If a problem is solved correctly and follows after another correct one, it receives a bonus consisting in the number of points of the previous problem plus 1 point. If a correct solution follows after a wrong one, it receives maximum 3 points. The final number of points gathered by a team is formed by the sum of all the points obtained for the four rounds of the test. The minimum number of points that a team can get is 0 points and the maximum is 18 points.

Article 6 – The Final Classification

The team who obtain the highest score after evaluation are declared the winners of the test. The final classification is presented in the decreasing order of the scores. In case two or more leading teams get the same number of points at the end of the test, a special round is organized to determine the order of the first three teams. This differentiating test includes one round organized only for the teams with the

same score. If necessary, other rounds will follow until a difference in score appears between the teams. The distinction between the teams who participate in the differentiating test will be established in the following way: one problem is provided which should be solved within a time limit of 15-minutes; for each team the time of solving the problem will be recorded; after the assessment, the difference between the teams is established according to the correctness of the answer and the recorded time; the team who solve the problem correctly in the shortest time are declared winners.

Article 7 – Rules of behaviour for the participants

I.   It is forbidden to use the computer (or any other type of similar device), the mobile phone or any other instrument for distance communication through which a team can exchange information and gain any advantage for providing the solution to the suggested problems. The teams who break this rule will be expelled from the competition.

II.   Members of different teams are not allowed to cooperate during the progress of the test. The teams who break that rule will be expelled from the competition.

III. The teams who delay the delivery of the answer sheet at the end of each round for more than 60 seconds added to the time specified at article 4 will be expelled from the competition.

IV.   The members of each team will communicate in a way that will not disturb the other teams during the progress of the test.

Article 8 – The awarding of prizes

Prizes will be awarded to the first three teams according to a procedure established by the organizers of the Festival.