Summary for

IIUM MATHEMATICS COMPETITION (IMC) 2021

Activity	**IIUM MATHEMATICS COMPETITION (IMC) 2021**
Activity Synopsis	IMC is an annual mathematics competition organized by the Department of Computational and Theoretical Sciences, Kulliyyah of Science since 2005. More than half of children and adolescents worldwide are not meeting minimum proficiency standards in reading and mathematics leads to the implement of Sustainable Development Goal number four. Focusing in Malaysia, only a handful of mathematically capable students choose mathematics in local universities. This could be due to lack of promotions on mathematics programme to the public. Therefore, this competition hopes to attract talented secondary school students in Malaysia to join the Department of Computational and Theoretical Sciences (CTS), IIUM.
Objectives	1. To nurture the interest of secondary school students especially from Pahang, Terengganu, Kelantan, Melaka, Negeri Sembilan and Johor in mathematics. 2. To identify mathematically talented secondary school students from targeted locations in Malaysia. 3. To introduce and promote the programme offered by the Department of Computational and Theoretical Sciences (CTS) and Kulliyyah of Science to participated students and teachers. 4. To achieve universal *access* to a quality higher *education in line with* United Nation Sustainable Development Goal number four (SDG 4 – Quality Education).
Organizer	Department of Computational and Theoretical Sciences (CTS), Kulliyyah of Science (KOS) in collaboration with Ministry of Education (MOE).

Date, Time and Venue	<u>Preliminary Round</u> Date : 10 July 2021 (Saturday) Certificate Recognition: School level (All participants) <u>Semi-final Round</u> Date : 7 August 2021 (Saturday) Certificate Recognition: National Level <u>Final Round</u> Date : 22 September 2021 (Wednesday) Certificate Recognition: National level <u>Discussion on Questions and Closing Ceremony</u> Date : 29 September 2021 (Wednesday) All rounds will be conducted fully online.
Target Participants	Form 4 and Form 5 secondary school students from Pahang, Terengganu, Kelantan, Melaka, Negeri Sembilan and Johor states.
Webpage	https://competition.iium.edu.my/imc
Chairman	Dr Siti Fatimah Zakaria Department of Computational and Theoretical Sciences. (fatimahsfz@iium.edu.my, Tel: +609-5716400 ext. 5078, H/P: 013-9960881)
Registration	Dr Wan Nur Fairuz Alwani Wan Rozali Department of Computational and Theoretical Sciences. (fairuz_wnfawr@iium.edu.my, H/P: 013-9095232)

RULES AND FORMAT (IMC 2021)

THE SCOPES

Number Theory, Algebra, Product of Irreducible Polynomials, Combinatorics, Geometry, *excluding* Calculus, Complex numbers.

THE COMPETITION

There are 3 stages for this competition: **Preliminary, Semi-Final, Final.**

All stages will be conducted fully online.

GENERAL RULES

1) Each school must appoint one (1) teacher to be the School Coordinator. Registration shall be made by the School Coordinator.

2) The participant is a secondary school student, forms 4 or 5 **(Malaysian citizen only)** from Pahang, Johor, Terengganu, Melaka, Negeri Sembilan or Kelantan only.

3) The maximum number of students per school is 40.

4) The registration fees is RM 10 per student. No refund will be given.

5) To sit for the competition, it is the responsibility of the participant to ensure he/she has a stable online network with a decent device, such as a computer, smartphone or tablet.

6) Stay tuned from time to time for our latest updates in this website.

IMPORTANT: This competition is an individual competition. No collaboration and discussion with another person is allowed. You will be disqualified if there is any evidence of collaboration or assistance.

GENERAL FORMAT

PRELIMINARY STAGE

- The Preliminary stage is conducted online.
- Question Type (Duration): 20 multiple choice questions (1 hour).
- The online platform will be sent to the School Coordinator 2 weeks before the exam.
- All questions must be answered in the online platform within the stipulated date and time.
- There will be a trial preliminary exam one (1) week before the official preliminary stage. This is to familiarize the participants with the online exam. For this purpose, the trial preliminary instructions will be given to the School Coordinator beforehand.

SEMI-FINAL STAGE

- The Semi-Final stage is conducted online.
- Question Type (Duration): 20 multiple choice questions (1 hour).
- A written mathematics sketch of the solution is encouraged to be submitted together with the answer as a pdf file attachment. The written submission could be used as a tiebreaker for qualifying to the final stage.
- The online platform will be sent to the School Coordinator 3 days before the exam.
- All questions must be answered in the platform within the stipulated date and time.

FINAL STAGE

- Question Type (Duration): 20 multiple choice questions (1 hour) and 5 subjective questions (2 hours).
- For subjective questions, a written mathematics solution must be submitted as a pdf file attachment.
- The online platform will be sent to the School Coordinator 3 days before the exam.
- All questions must be answered within the stipulated date and time.
- Only for this final stage, the examination is done in school. The school must provide an examination room for their participant(s).
- The School Coordinator is responsible to submit the answers of the participants in the platform. Further instructions on the submission of answers in the platform will be given later.
- No calculator, geometry set, and any reference book are allowed in the examination room.