



Guru Gram Welfare Society

in association with



Presents

**Pre-RMO Workshop at Indraprastha
International School (Dwarka)**

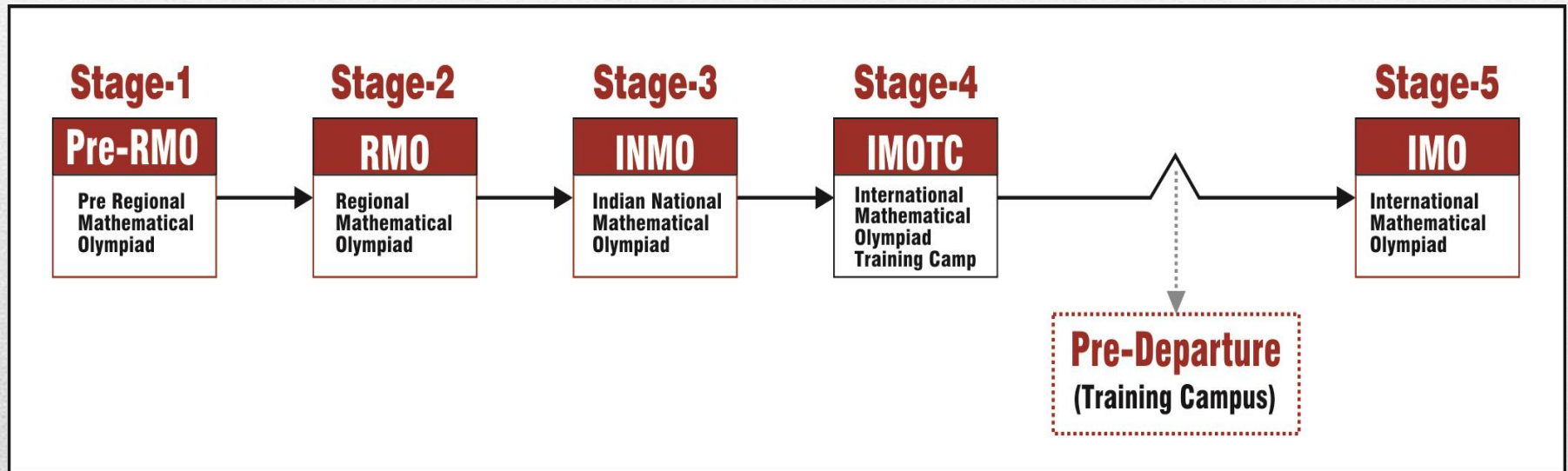
Mathematical Olympiad 2017-18

**“Winning Olympiad Medals
A dream of young achievers”**

Mathematical Olympiad Programme in India and related activities.

- Major Initiative undertaken by the National Board for Higher Mathematics.
- Organized by Homi Bhabha Centre for Science Education (HBCSE)
- Main Purpose – To spot and encourage mathematical talent among pre-university students in the country.
- Only Olympiads lead to participation of Indian students at the international Mathematical Olympiad.
- Apart from IMO, we started participating in European Girls' Mathematical Olympiad and Asian pacific Mathematics Olympiad (APMO).

Stages of Mathematics Olympiad (Difficulty Levels)

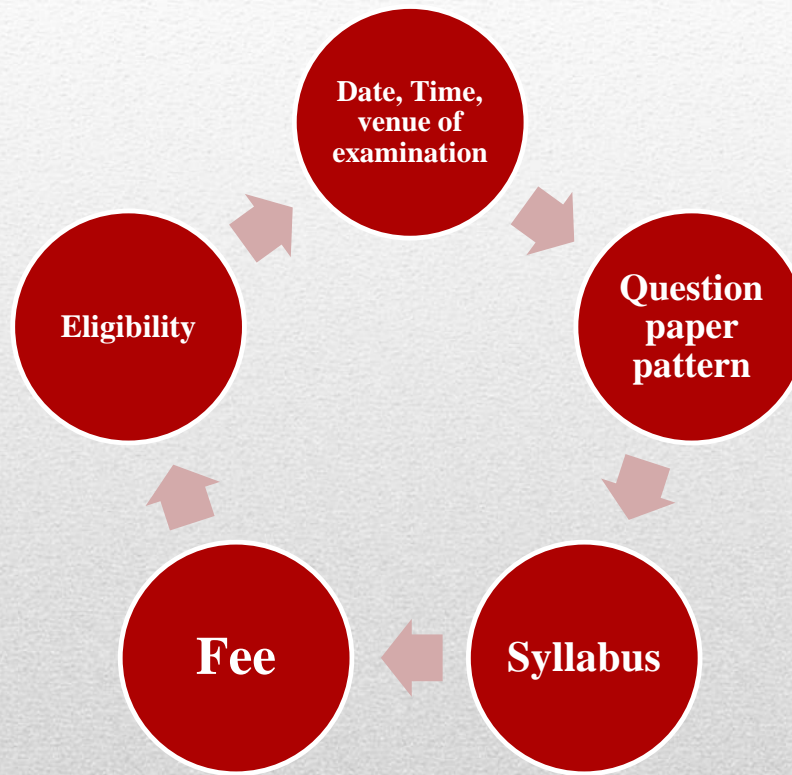


Team Selection and Training Process

- 25 regions all over the country have been designated
- Each assigned a regional co-ordinator
- Additionally, three groups CBSE, NVS and KVS have a regional co-ordinator each.

STAGE-1 - PRMO

Next Stage >



PRMO

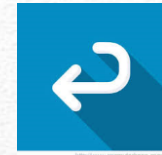


Date, Time, venue of examination

- 20th Aug. 2017
- 10.00 am -12.30 pm
- At respective regional center

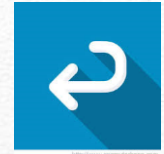
PRMO

Eligibility



- Indian Students
- Born on or after 1 Aug, 1998
- Studying VIII, IX, X or XI

PRMO

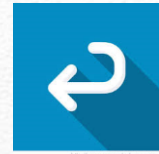


Question paper pattern

- Machine – Correctable Test
- 30 Questions
- One or two digit answer $\frac{1}{2}$ hrs.

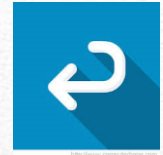
PRMO

Syllabus



- Major Areas –
- Algebra, Combination, Geometry, Number theory
- Not Include : Calculus and Statistics

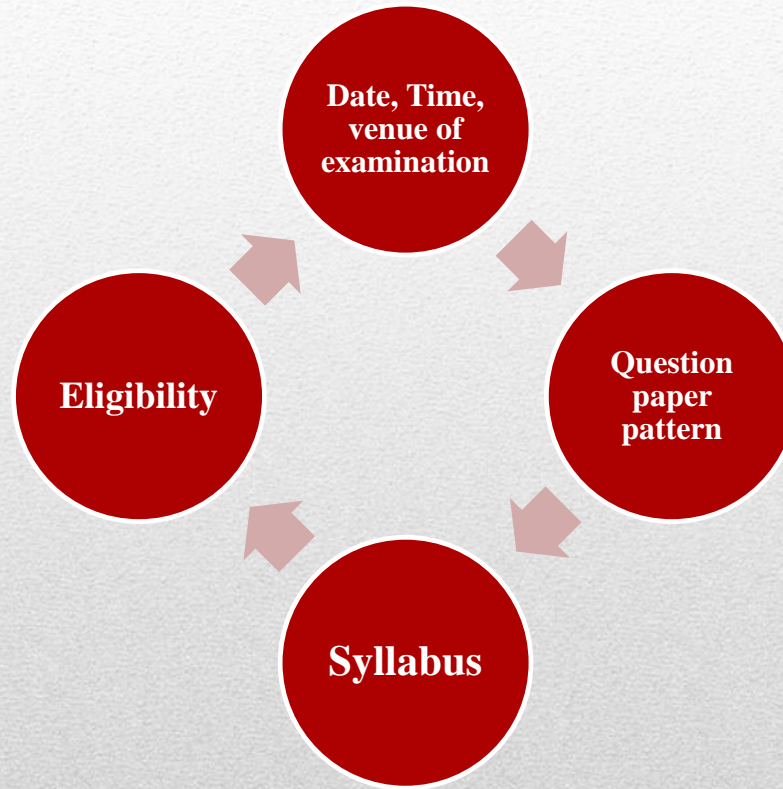
PRMO Fee



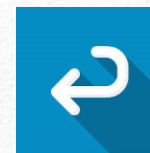
- Fees may vary but not more than Rs. 200

STAGE-2 - RMO

[Next Stage >](#)



RMO

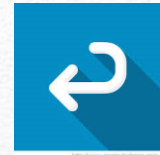


Date, Time, venue of examination

- **8th Oct. 2017**
- **In respective regions**
- **1.00 pm to 4.00 pm (Tentative)**

RMO

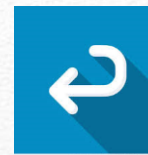
Question paper pattern



- **Written Test**
- **6 Questions**
- **3 hrs.**

RMO

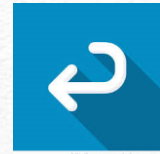
Syllabus



- **Major Areas –
Algebra, Combination, Geometry,
Number theory**
- **Not Include : Calculus and
Statistics**

RMO

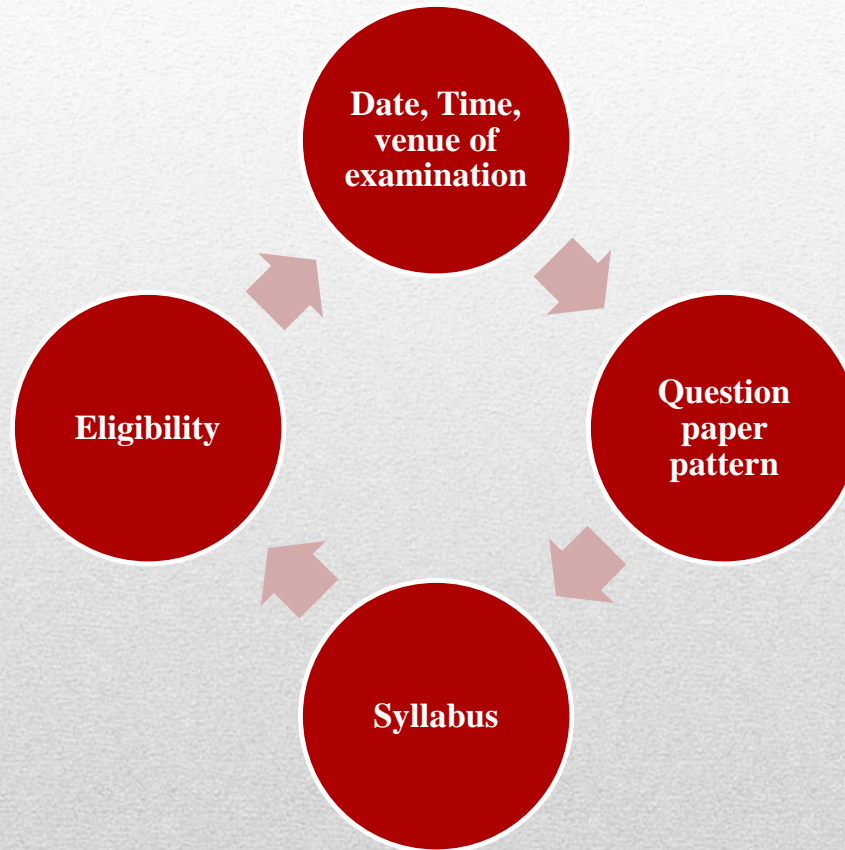
Eligibility



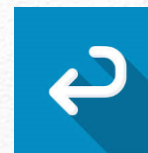
- **Top 300 students for each region**
- **For KV, CBSE, JNU 5% of the number of registrations or 300.**

STAGE-3 - INMO

[Next Stage >](#)



INMO

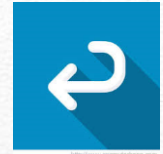


Date, Time, venue of examination

- 21st January 2018
- 12.00 noon to 4 pm

INMO

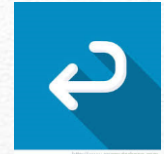
Question paper pattern



- **Written test**
- **4 hrs**

INMO

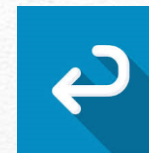
Syllabus



- Major Areas –
- Algebra, Combination, Geometry, Number theory
- Not Include : Calculus and Statistics

INMO

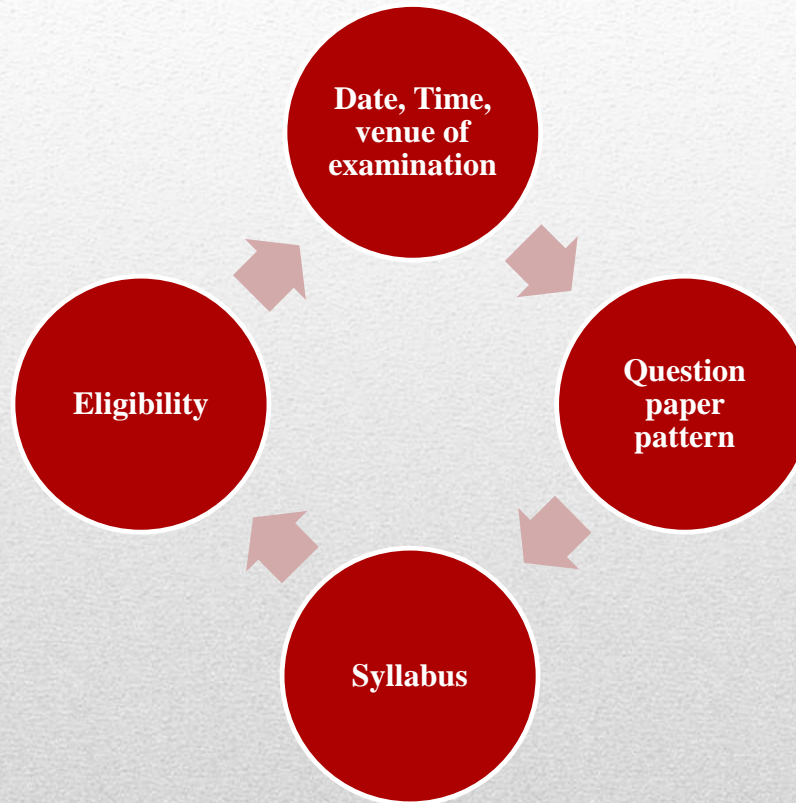
Eligibility



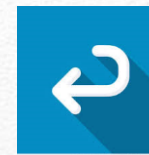
- 30 maximum students for each region who cleared RMO (in case of tie for closing ranks tie breaking mechanism applied).
- Five next girls students
- Those have INMO certificate of merit 2016 (previous year) provided in class XI or below.

STAGE-4 - IMOTC

Next Stage >



IMOTC

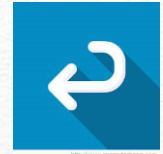


Date, Time, venue of examination

- April – May Month Training
Camp HBCSE

IMOTC

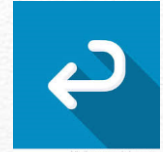
Question paper pattern



- **Number of sections test conducted during the camp**

IMOTC

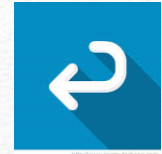
Syllabus



- Major Areas –
- Algebra, Combination, Geometry, Number theory
- Not Include
- Calculus and Statistics

IMOTC

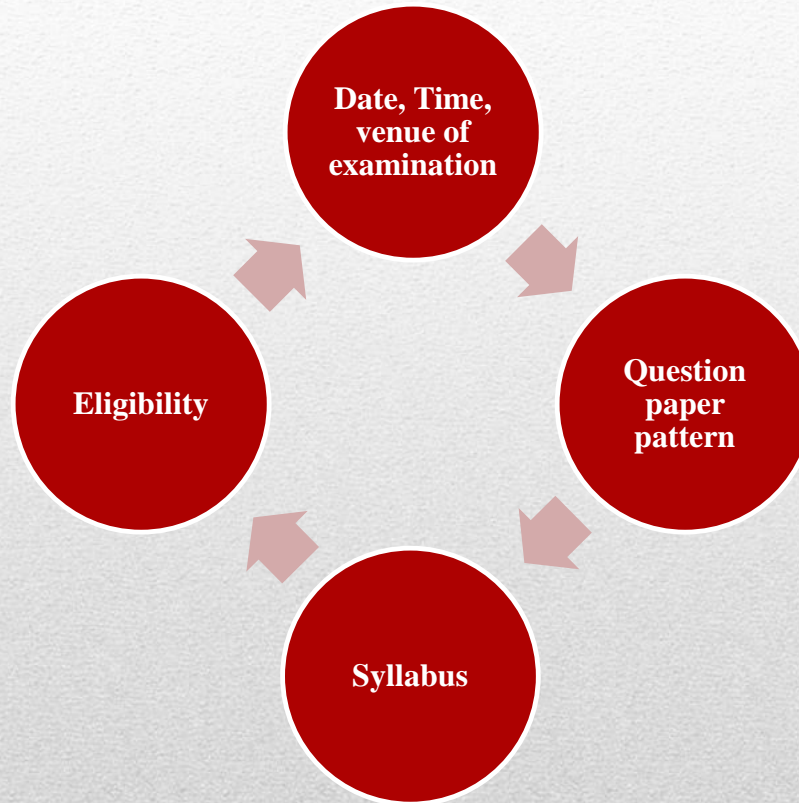
Eligibility



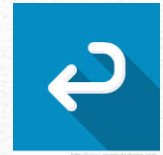
- **INMO awarders**
- **5 girls selected**
- **Senior students who has not completed one year of 12th .**

STAGE-5 - IMO

Benefits upon
Qualifying INMO



IMO

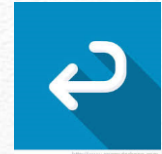


Date, Time, venue of examination

- July
- Different member country of IMO

IMO

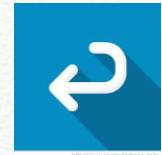
Question paper pattern



- **Written test (2)**
- **3 Questions (in each set)**
- **4½ (each)**

IMO

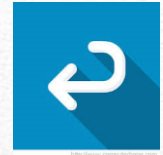
Syllabus



- Major Areas –
- Algebra, Combination, Geometry, Number theory
- Not Include
- Calculus and Statistics

IMO

Eligibility



- A team of the best six students (Combined pool of junior & Senior batches) on the basis of selection tests.
- Medical fitness, parental consent, valid Indian etc.

Benefits upon Qualifying

[To References](#)

Stages	Course offered / scholarship	Institute / Board	Monetary Benefits	Any clause
INMO Qualified	B.sc(H) Mathematics	Chennai Mathematical Institute	----	-----
INMO Awarders	B.Stat or B.Math	Indian statistical institute	---	Called for interview W/O written test.
	NBHM Scholarship	---	Rs. 2500 / month	Continue studies in Mathematics
	4 Year of training in Mathematics	Correspondence and periodic contact with chosen faculty	Rs. 9000 annually	Satisfactory performance
IMO	Kishore Vaigyanik Protsahan Yojana (KVPY)	----	5000 / monthly	Pursue studies in science subject in India
Gold / Silver / Bronze Medals at IMO		NBHM	Rs. 5000, Rs. 4000, Rs. 3000 respectively	

All travel expenses for IMO training camp and all expenses for IMO are borne by the ministry of HRD

References

Problem Primer for Olympiads

CR Pranesachar, B J Venkatachala and CS Yogananda (Prism Books Pvt. Ltd. Bangalore)

Challenge and Thrill of Pre-College Mathematics

V Krishnamurthy, C R Pranesachar, K N Ranganathan and B J Venkatachala (New Age International Publishes, New Delhi).

An Excursion in Mathematics

Editors: MR Modak, S A Katre and VV Acharya and V M Sholapurkar (Bhaskaracharya Pratishthana, Pune).

Problem Solving Strategies

A Engel (Springer–Verlag, Germany).

Functional Equations

B J Venkatachala (Prism Books Pvt. Ltd. Bangalore).

Inequalities- an approach through problems (Tests and Readings in mathematics), B J Venkatachala (Hindustan Book Agency)

Mathematical Circles

Formin and others (University Press, Hyderabad)

Many other interesting references may also be found in the book **An Excursion in Mathematics**.

Previous Year Questions Papers

Link : <http://olympiads.hbcse.tifr.res.in/>

For Model Papers and Assignments

Visit - www.ntsescholars.com



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