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No.F.: No.11029/05/2009-KVS(HQ)/Acad/

Dated: 17-07-2014

The Deputy Commissioner,
Kendriya Vidyalaya Sangathan,
All Regions.

Subject : 17TH KVS JUNIOR MATHEMATICAL OLYMPIAD- 2014

Sir/Madam,

The Mathematical Olympiad Programme in India, which leads to participation of Indian students in the International Mathematical Olympiad (IMO) is organized by the Homi Bhabha Centre for Science Education (HBCSE) on behalf of the National Board for Higher Mathematics (NBHM) of the Department of Atomic Energy (DAE), Government of India. This programme is one of the major initiatives undertaken by the NBHM. Its main purpose is to spot mathematical talent among pre-university students in the country.

For the purpose of training and selection of students for the Olympiad contest, 25 regions all over the country have been designated and each assigned a Regional Coordinator. Additionally, three groups (Central Board of Secondary Education (CBSE), Navodaya Vidyalaya Samiti (NVS) and Kendriya Vidyalaya Sangathan (KVS) have a 'Regional Coordinator' each.

Mathematical Olympiad is the only school level mathematical problem solving contest held annually. It is conducted by different organizations to identify, encourage, promote and nurture the talent in Mathematics at State, Regional, National and International levels. In India, this is organized by National Board for Higher Mathematics (NBHM), since 1988. This is conducted in five stages, **The Regional Mathematical Olympiad (RMO)** is usually held during October-December in 25 regions.

The Indian National Mathematical Olympiad (INMO) is held in Feb. and then an **International Mathematical Olympiad Training Camp (IMOTC)** organized in April- May from where a team of the best six students is selected to represent India in **International Mathematical Olympiad (IMO)** held in

July each year in a member country of the **IMO**. The academic coordination is mainly done by the Mathematical Olympiad Cell (MO Cell) in Indian Institute of Science, Bangalore.

Kendriya Vidyalaya Sangathan, a premier organization in the field of secondary and senior secondary education has its specific mission "To pursue excellence and set the pace in the field of school education". For last 16 years KVS has been conducting its own Mathematical Olympiad programme in two phases – Junior Mathematical Olympiad (**JMO**) and Regional Mathematical Olympiad (**KVS-RMO**). After screening the students by **JMO**, about top 100 students are trained and tested by **KVS- RMO**. Top 30 students selected from **KVS-RMO** participate in **INMO** conducted by **NBHM**. Selection at National level leads to participation at the International Mathematical Olympiad (**IMO**) through another round of training / test /orientation etc.

AIMS & OBJECTIVES OF KVS MATHEMATICAL OLYMPIAD:

KVS is nurturing the talent of students through Mathematical Olympiad Programme which includes:

- Identifying talent in Mathematics.
- Promoting excellence in Mathematics.
- Providing opportunities to young and talented students to solve challenging problems in Mathematics.
- Encouraging talented students to pursue careers in the field related to Mathematics.

GENERAL GUIDELINES:

Eligibility Criteria to appear in 17th KVS JMO -2014

- A Student studying in class X who secured **A2 or higher grade in Mathematics in class IX** examination and
- A student studying in class XI with Mathematics as an elective subject (irrespective of stream opted) who secured **A2 or higher grade in Mathematics in class X** examination can appear.

Note- There will be a common question paper for all the participants.

Syllabus

The syllabus for Mathematical Olympiad (regional, national, international) is pre-degree college mathematics. The areas covered are arithmetic of integers, geometry, quadratic equations and expressions, trigonometry, co-ordinate geometry, system of linear equations, permutations and combinations, factorization of polynomials, inequalities, elementary combinatorics, probability theory and number theory, finite series and complex numbers and elementary graph theory. The syllabus does not include calculus and statistics. The major areas from which problems are given are

number theory, geometry, algebra and combinatorics. The syllabus is in a sense spread over class XI levels, but the problems under each topic involve high

level of difficulty and sophistication. The difficulty level increases from JMO to RMO to INMO to IMO.

Registration Fee

KVS has decided not to charge any registration fee from any student to appear in 17th KVS JMO-2014.

Procedure For Registration

The eligible & willing candidate has to register herself / himself on prescribed form (Annexure-I). The school will retain one copy of the filled Registration Form for the record. However, a consolidated list of students, registered Vidyalaya-wise for the Olympiad should be sent to the undersigned in the format given in Annexure-VII

Last Date

Last date for submission of list of registered students to the regional office will be 30th July 2014.

Allocation Of Roll Number

The Principal of KV concerned will allocate the Roll No. on registration form of each candidate. The same roll no. should be mentioned on the admit card. The roll numbers will be allocated strictly in the following manners.

- Each student will be allotted nine digit roll number. The first two digits on the left will

show the region code, next four digits will show the Vidyalaya code and last three digits will show the serial number of the candidate.

Coding Procedure for allocating Roll Numbers :

| Region Code | Vidyalaya Code | Sr. No. |
|---|---|--|
| <input type="text"/> <input type="text"/> | <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | <input type="text"/> <input type="text"/> <input type="text"/> |

Example: The roll Number of Master Mukesh of KV NTPC Badarpur (KV Code (1406) of Delhi (Code No.09) and having serial number 005 in the list of students registered for Olympiad in that school will be written as:

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0 | 9 | 1 | 4 | 0 | 6 | 0 | 0 | 5 |
|---|---|---|---|---|---|---|---|---|

Note: For allotting roll number to students each KV should follow strictly the standardized codes for Regional Offices and Kendriya Vidyalayas covered in each region as per codes mentioned in transfer guidelines. This is necessary as the same codes are to be maintained by KVS (HQ) during Computerization of the registration/result etc.

NOTE : Double shift schools will allocate roll nos in the same sequence in increasing order starting from sr.no 001 from 1st shift .

Admit Card

The admit card to the students will be issued by the Principal after allotting the Roll Number and the Examination Center. However, the roll number on the admit card should remain the same as allotted in registration form of the candidate. The format of the Admit card is enclosed at **Annexure-III**.

Examination Center

The Deputy Commissioner of the Region concerned will identify the Examination Centers and intimate the same to the Principals. The same will be intimated by the Principals to the students through Admit Cards.

Date & Time Of Examination :

7th September 2014, Sunday. Time: 10:00 AM to 1:00 PM.

Question Papers

The question papers for the Junior Mathematical Olympiad (**JMO**) will be dispatched directly from KVS (HQ) to examination centers identified by the Deputy Commissioner of the concerned regions.

Answer Books

Answer books with 16 pages (A-4 size) with the title page as shown in the **ANNEXURE-IV** are to be provided by the examination centre.

Spot Evaluation /Merit List

The answer scripts of 17th **KVS- JMO- 2014** will be brought to KV, NFC, **Vigyan Vihar Delhi** (Spot Evaluation Centre) and be evaluated by the examiners (TGT/PGT – Maths) of Delhi and nearby regions. A merit of about top100 students will be prepared. These 100 students will attend the training camp for **KVS- RMO/INMO- 2014** for 10 days during winter break of the year-2014.

Declaration of Result

The result of 17th **JMO** is likely to be declared in the month of November 2014.

Merit Certificates & Cash Awards – JMO:2014

KVS (HQ) will confer the following Cash Awards and Merit certificates as per the laid down criteria:

- (a) Cash awards of Rs.10,000/-, Rs.8000/- and Rs.5000/- for securing first, second and third position respectively at KVS National Level.
- (b) Cash awards of Rs.5000/-, Rs.4000/- and Rs.3000/- for securing first, second and third position respectively at Regional Level.
- (c) Students eligible for KVS National as well as Regional level awards shall be conferred with higher cash prize only.

Merit certificates will be given to those students who secure atleast 35% marks in JMO.

Merit Certificates And Cash Awards : KVS - RMO

An incentive as per the following criteria would be awarded to the student who perform the best in RMO

First Prize – Rs. 10000/-, Second Prize – Rs. 8000/-, Third Prize – Rs. 5000/- respectively along with the merit certificates.

Merit certificate & Cash Award – INMO – 2015

The students who are selected in INMO- 2015 would be awarded by a merit certificate and cash award of Rs. 20,000/ (applicable for INMO awardees only).

Venue for Training Camps – INMO 2015

To motivate/ facilitate the participants, this year also it is decided that 02 camps for 10 days during winter break would be organized at the following centres as per schedule given below:

- (i) KV- IIT Chennai 26th December 2014 – 4th January 2015.
- (ii) KV NFC Vigyan Vihar, Delhi 26th December 2014 – 4th January 2015.

KVS- RMO (Regional Mathematical Olympiad)

On the penultimate day of the INMO preparatory camp, a test of 3 hours for 100 marks will be conducted and evaluated at both the centres (Delhi/ Chennai). About top 30 students of RMO will be selected on the basis of combined merit of both the centres. They will then participate in INMO in the month of Feb 2015 conducted by NBHM. Selection at National level leads to participation at the International Mathematical Olympiad (IMO) through another round of training/test/orientation etc.

You are requested to take up the following steps:

1. Circulate the information and the guidelines to all the Vidyalayas and ensure the **mass participation** of the eligible students under your region.
2. The Principal of each school will send the list of students registered in **Annexure- II** to the concerned Regional Offices by **30th July 2014**. **You are requested to send the consolidated list of the participating students Vidyalaya wise as per the format given in Annexure- VII to the Joint Commissioner(Acad.) KVS HQ on or before 07th August 2014.**
3. Identify **07 to 08 examination centres** to conduct the **17th KVS JMO-2014** in your region keeping in mind that students should travel minimum distance to write the exam. Number of examination centres may be increased if the Deputy Commissioner of the Region feels so keeping in view the convenience of the students. Principal of each school should send the list of students registered in **Annexure- II** and attendance sheet in **annexure VI** completed in all the respects (except the signature of the candidates) to the respective examination centres and a copy to the Deputy Commissioner of the concerned region . **You are further requested to send the list of examination centres and requirement of the question papers for the JMO examination in Annexure-V to the National Coordinator Mr G S Lawania , PGT- Mathematics KV Pushp Vihar M.B.Road , New Delhi and a copy to the Principal, Kendriya Vidyalaya, NFC, Vigyan Vihar, Delhi on their email id's on or before 07th August July 2014.**
4. Nominate **02 Mathematics teachers (one PGT and one TGT)** of your region, one as Regional coordinator and another as Associate Regional Coordinator and send their names with mobile nos in **Annexure –VIII** to National Coordinator, KVS Maths Olympiad and a copy to the Joint Commissioner(Acad.) KVS ,HQ on their email id's **on or before 07th August July 2014**
5. **Mr M L Agrawal, Principal, Kendriya Vidyalaya, NFC, Vigyan Vihar, Delhi- 110092, will be "Director of Evaluation" for 17th KVS-JMO-2014.**
6. The Principal of the Examination Centre will be the Superintendent for conduct of **17th KVS- JMO-2014**.
7. The Centre Superintendent shall make all the necessary arrangements to dispatch the answer scripts of **17th KVS-JMO -2014 on or before 08th September (Monday) Positively by Speed Post along with one copy of attendance sheet on annexure-VI, and a copy of annexure –II (Bilingual) at the following address.**

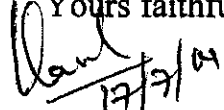
**The Principal
Kendriya Vidyalaya, NFC, Vigyan Vihar
(Opposite Vivek vihar Police station)
Delhi-110092**

8. Last year also it has been observed that some schools had sent incomplete information /Annexure and wrong spellings of the name of student/ father's name etc which created a lot of confusion in writing the merit certificates. You are therefore requested to instruct all the principals of your region to ensure that all the entries / Annexure being sent to the KVS (HQ) are correct. Later on no correction at any stage will be entertained.

The important email id's for correspondence :

| | |
|--|--|
| J.C (Acad.) KVS | jccadkvs@gmail.com |
| D.C.(Acad.) KVS | acedpkvs@gmail.com |
| Principal,KV Vigyan Vihar, Delhi. (Director of evaluation) | kvvigyanvihar@yahoo.co.in |
| National Coordinator KVS | gslawania@gmail.com |


This issues with the approval of competent authority.

Yours faithfully


(Dr. V. Vijayalakshmi)
Joint Commissioner (Acad.)

Copy To :-

1. Mr. Nagendra Goyal, Deputy Commissioner (Acad.) KVS, HQ New Delhi.
2. Mr G S Lawania –National Co-ordinator- Mathematics Olympiad . K.V Pushp Vihar New Delhi


Joint Commissioner (Acad.)

17th KVS Junior Mathematical Olympiad -2014

Paste recent
passport size
Photograph
attested by the
Principal

Roll No.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
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Registration Form (To be retained by the Vidyalaya for record)

(Roll No. of the eligible student - should be strictly filled in as per instructions given in guidelines)

Note: Candidate should fill up relevant columns of the registration form in his/her own handwriting .

I. Name of the student (in Block letters)

English :.....

Hindi:-----

2. Mother's Name (in Block Letters)

English :.....

Hindi:-----

3.Father's Name (in Block Letters)

English :.....

Hindi:-----

4. Postal address of the KV :-----

5. Studying in : Class Section

6. Grade obtained in Mathematics in class IX / X

7. Marks obtained in class XI (if applicable)

I certify that particulars furnished above are correct.

(Signature of the Candidate)

Verification by Class teacher

Counter Signed by Principal
With seal

17th KVS Junior Mathematical Olympiad - 2014

Admit Card
(For student only)

Paste recent
passport size
Photograph
attested by
Principal

Roll No.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

(Fill the Roll No. Strictly as per the instructions given in guidelines)

Date of the Examination :

7st September 2014 (Time 10 A.M. to 01:00 P.M.)

Examination Center

| |
|--|
| |
|--|

(To be filled by KV Concerned)

1.. Name of the student (in Block letters)

English :.....

Hindi:-----

2. Father's Name (in Block Letters)

English :.....

Hindi:-----

3.Class _____

4. Name of KV -----

5. Region _____

6. Residential Address -----

Signature of the Candidate

Signature of Principal with seal

Signature of candidate in examination hall

Signature of Invigilator



NAME OF EXAMINATION CENTRE-

.....

Answer Sheet

Roll Number-

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

Name of the student ----- (in English Capital Letters)

Name of the student - ----- (in Hindi)

Father's Name-----

Class _____

Name of Vidyalaya-----

Name of Region -----

Signature of Invigilator

Signature of centre supdt / Principal
With seal.

Marks Awarded

| Q.No1 | Q.No.2 | Q.No.3 | Q.No.4 | Q.No.5 | Q.No.6 | Q.No.7 | Q.No.8 | Q.No.9 | Q.No.10 | Total |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|
| | | | | | | | | | | |

Signature of coordinator
Examiner no.

Signatures of Examiner
Examiner no.

17th KVS Junior Mathematical Olympiad: 2014
List of examination centers at Regional Level

Name of Region-----

| S.N | Name of test centres with complete postal address & pin code | Email id of the test centres with Phone nos. | Principal's mobile no. | No. of students Regd. | No. of question papers required | Name of schools covered |
|-----|--|--|------------------------|-----------------------|---------------------------------|-------------------------|
| 1. | | | | | | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |

Signature of Deputy Commissioner
With seal

17th KVS Junior Mathematical Olympiad- 2014

Name of Region -----

| S No. | Name of Coordinator | Name of School | Mobile No. | Email id of the coordinator |
|-------|---------------------|----------------|------------|-----------------------------|
| 1. | Regional ----- | | | |
| 2. | Associate ----- | | | |

**Signature of Deputy Commissioner
With seal**