



Swami Ramanand Teerth Marathwada University, Nanded  
School of Mathematical Sciences  
Celebration of National Mathematics Day-2024  
Mathematical Genius Srinivasa Ramanujan's birth Anniversary



## ***Math Quiz Competition***

**28 & 31 Dec 2024**

**Theme:** Identifying the talent at right time is very essential and **Quiz competition** at school level is one such activity. We will try to identify the talented Mathematicians at early age and encourage them to pursue research in the Mathematics field. District level quiz competition will be organized at Nanded, Latur, Parbhani and Hingoli, and two teams will be selected from each district for the final mega competition at SRTM University. District Level Quiz Competition will be organized on **28-12-2024** in collaboration with the following institutions:

District	Institution Name	Coordinators	Contact no
Latur	Dayanand Science College	Dr. S.S. Bellale	9405417417
Parbhani	Shri Shivaji College	Mr. S. Kadam	9421089199
Hingoli	Adarsh ACS College	Dr.S. Hatkar	8805499012
Nanded	Yeshwant College	Dr. N. A. Pandey	9421450120

**Final Competition:** **31-12-2024**, School of Mathematical Sciences, SRTM University

### **Instructions:**

- Only one team is allowed to participate from one school
  - Each team consists of exactly 4 students from 10<sup>th</sup> class
  - Participation certificates will be provided to all teams
  - District level winner's certificates for top two teams
  - Final Mega Competition winners get prize money along with certificates
- First prize:** Rs.2000 **Second prize:** Rs.1000 **Third prize:** Rs.500
- Registration link: <https://forms.gle/6G3qJfgkvs44EjGR9>

**Dr. B. Surendranath Reddy**  
Coordinator, NMD-2024

**Dr. D. D. Pawar**  
Coordinator, NMD-2024

**Dr. Rupali S. Jain**  
Organizing Secretary, NMD-2024

Catalysed and supported by National Council for Science and Technology Communication, DST,  
Govt. of India and Rajiv Gandhi Science and Technology Commission, Govt. of Maharashtra.

# Math Quiz Competition - 2024-25

Event	Math Quiz Competition - 2024-25
Day	28 <sup>th</sup> December 2024
Occasion	To celebrate Ramanujan Birth Anniversary as National Mathematics Day-2024
Target Participants	10 <sup>th</sup> Class Students of all schools of Nanded District
Level	District Level (Nanded District)
Organizer	Department of Mathematics & Statistics, Yeshwant Mahavidyalaya, Nanded
Co-ordinator	Dr.N.A.Pande
Joint Collaboration	School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded
Catalysed and Supported by	1) National Council for Science and Technology Communication, DST, Govt. of India 2) Rajiv Gandhi Science and Technology Commission, Govt. of Maharashtra

Rules for Organizers	<div>1) If participating teams are more than 6, then there will be elimination round before main quiz.</div> <div>2) Minimum 4 teams and maximum 6 teams</div> <div>3) Rounds in Main Quiz : 4</div> <div>4) Questions in each round : 6</div> <div>5) In each round every team will get 2 questions. After completing first question to all the teams, start the second question in reverse order (suppose 1<sup>st</sup> question from A to F, then second question is from F to A)</div> <div>6) In next round, start the direct question from next team (for example, in previous round started with team A, then in this round start with team B)</div> <div>7) Question types with duration, marks and negative marks :</div> <table><tr><td>Question</td><td>Time</td><td>Marks</td><td>Negative</td></tr><tr><td>Direct</td><td>30 Sec</td><td>10</td><td>-5</td></tr><tr><td>Passed</td><td>15 Sec</td><td>5</td><td>-5</td></tr></table> <div>8) The bills in the name of “The Registrar, SRTM University” and write on the bill “paid by me” and put your signature. Try to have GST bill wherever possible. If not possible, please ask them to write “Annual turnover is less than 20 lakhs, so no GST required” (you can translate in marathi to that person to write)</div> <div>9) Approval was from Hon’ble VC for expenditure up to Rs.4000 including joint Model competition event with proper bills submission.</div>	Question	Time	Marks	Negative	Direct	30 Sec	10	-5	Passed	15 Sec	5	-5
Question	Time	Marks	Negative										
Direct	30 Sec	10	-5										
Passed	15 Sec	5	-5										
Rules for Participants	<div>1) Only one team is allowed to participate from one school</div> <div>2) Each team consists of exactly 4 students from 10th class</div> <div>3) Participation certificates will be provided to all teams</div> <div>4) District level winner’s certificates for top two teams</div>												
Registration link	<a href="https://forms.gle/6G3qJfgkvs44EjGR9">https://forms.gle/6G3qJfgkvs44EjGR9</a>												
Inaugural Function Date	28th December 2024												
Inaugural Function Time	10:00 am												
President of Inaugural Function	Principal Dr.G.N.Shinde												
Anchoring	Dr.N.A.Pande												
Inaugural Guiding Speech	Principal Dr.G.N.Shinde												

Vote of Thanks	Dr.V.C.Borkar
Number of Schools/Teams Participated	6
Details of Participants	22

Sr. No.	Name of the Participant	Name of the School
1	Sakshi Ganesh Jangilwad	Shri Shivaji Highschool, Nanded
2	Soham Shivanand Bhole	Shri Shivaji Highschool, Nanded
3	Saksham Sanjay Kathekar	Shri Shivaji Highschool, Nanded
4	Vedant Keshav Kokate	Shri Shivaji Highschool, Nanded
5	Shivam Vedant Jarikote	Gurati High School, Nanded
6	Nikhil Balaji Mahajan	Gurati High School, Nanded
7	Rewan Ramrao Deshmukh	Indira International Public School, Nanded
8	Prasad Datta Gundekar	Indira International Public School, Nanded
9	Shivendra Santosh Jadhav	Indira International Public School, Nanded
10	Geeta Santosh Mamde	Indira International Public School, Nanded
11	Ganesh Uddhavrao Jayebhaye	Gurati High School, Nanded
12	Vedant Kalyan Sonwale	Gurati High School, Nanded
13	Gaurav Rama Atkore	Mahatma Phule High School, Vijaynagar, Nanded
14	Sushant Anil Raybole	Mahatma Phule High School, Vijaynagar, Nanded
15	Jaideep Tukaram Powale	Sandeepani Public School, Nanded
16	Omraj Laxman Mundhe	Sandeepani Public School, Nanded
17	Sonakshi Anil Rathod	Sandeepani Public School, Nanded
18	Gaglegaonkar Gauri Nagnath	Mahatma Phule High School, Babanagar, Nanded
19	Tanhvi Ashok Rathod	Mahatma Phule High School, Babanagar, Nanded
20	Puthviraj Punjabrao Deshmukh	Mahatma Phule High School, Babanagar, Nanded
21	Krishna Sandeep Pund	Mahatma Phule High School, Babanagar, Nanded
22	Manasvi Suresh Desai	Mahatma Phule High School, Vijaynagar, Nanded

28-12-2024

Sr. No.	Name of Student	School Name	Signature
1.	Sakshi Ganesh Jangilwad	Shri Shivaji high school	Sakshi
2.	Goham shivanand Bhok	Shri Shivaji high school, Nanded	Goham
3.	Saksham Sanjay Kothekar	Shri Shivaji high school, Nanded	Saksham
4.	Vedant Keshavraa Kulkate	Shri Shivaji high school Nanded	Vedant
5.	Shivam vasant Josikate	Gujrati high school, Nanded	Shivam
6.	Nikhil Balaji Mahajan	Gujrati Highschool, Nanded	Nikhil
7.	Revan Ramrao Deshmukh	Indira International public school, Nanded	Revan
8.	Prasad Datta Gundekar	Indira International Public School	Prasad
9.	Shivendra Santosh Jadhav	Indira International Public School	Shivendra
10.	Heeta Santosh mamde	Indira International public school	Heeta
11.	Ganesh Uddhanrao Jeyebhaye	Gujrati Highschool, Nanded	Ganesh
12.	Vedant Kalyan Sonawale	Gujrati high school, Nanded	Vedant
13.	Gaurav Rama Alkore	Mahatma phule high school, vijayn	Gaurav
14.	Gushant Anil Raybale	Mahatma phule high school, vijayn	Gushant
15.	Jaideep Tukaram Powale	Sandeepani Public School, Nanded	Jaideep
16.	Omraj Laxman Mundhe	Sandeepani Public School, Nanded	Omraj

[illegible]

Number of Question Rounds	4
Number of Questions in Each Round	12
Total Number of Questions	48
Questions and Answers	

#### Round 1 : General Awareness

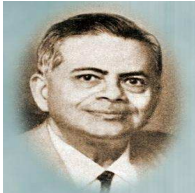



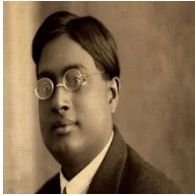



- 1) Who is known as father of Mathematics?  
→ Archimedes
- 2) Study of Insects is called as  
→ Entomology
- 3) Study of Skeleton is called as  
→ Osteology
- 4) Who is the mother of Modern Physics?  
→ Marie Curie
- 5) Which instrument is used to measure Atmospheric pressure?  
→ Sphygmomanometer
- 6) What is the smallest organ of our body?  
→ The Pineal Gland
- 7) Which city is known as white city in India.  
→ Udaipur
- 8) Which Ocean is roughly triangular shaped?  
→ Bay of Bengal
- 9) Which Ocean is 'S' shaped?  
→ Atlantic Ocean
- 10) Which Ocean forms a circle?  
→ Arctic Ocean
- 11) Which Ocean is the bluest Ocean?  
→ The Maldives
- 12) How many states have a cost line on the Indian ocean?  
→ 9

#### Round 2 : Reasoning Questions

- 1) Complete the series 1, 27, 125, 343, \_\_  
→ 729

- 2) Complete the series 100, 90, 81, 73, 66, 60, \_\_\_\_  
→ 55
- 3) Complete the series 1, 5, 14, 30, 55, 91, \_\_\_\_  
→ 140
- 4) Complete the series 3, 5, 9, 36, 41, 20, 211, \_\_\_\_  
→ 1146
- 5) Complete the series 2, 10, 6, 42, 24, \_\_, \_\_.  
→ 216, 120
- 6) 0, 1, 1, 2, 3, 5, 8, 13, x, 34. Then what is the value of 'x'.  
→ 21
- 7) If EARTH is coded as FCUXM, then MOON is coded as \_\_\_\_\_.  
→ NQRP
- 8) If DELHI is coded as EDMGJ then NEPAL is coded as \_\_\_\_\_.  
→ ODQZM
- 9) If PARENT is coded as OZQDMS then FEMALE is coded as \_\_\_\_\_.  
→ EDLZKD
- 10) If SYMBOL is coded as NZTMPC then NUMBER is coded as \_\_\_\_\_.  
→ NVOSFC
- 11) If COMPUTER is coded as PMOCRETU then DECIPHER is coded as \_\_\_\_\_.  
→ ICEDREHP
- 12) If MADRAS is coded as NBESBT then BOMBAY is coded as \_\_\_\_\_.  
→ CPNCBZ

### Round 3 : Identification of Mathematicians

- |  |  |   |  |
|--|--|---|--|
| 1)  | 2)  | 3)  | 4)  |
| → Samarendra Nath Roy  | → Alan Turing  | → Manjul Bhargava   | → C.R. Rao   |
| 5)  | 6)  | 7)  | 8)  |

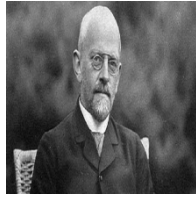
→ Satyendranath Bose → D.R.Kaprekar

→ Maryam Mirzakhani → Neena Gupta



9)

→ Chandrashekhar Khare



10)

→ David Hilbert



11)

→ Emmy Noether



12)

→ Mangala Narlikar

#### Round 4 : Basic and Concept of Mathematics

1) The value of  $(1444)^{\frac{1}{2}} \times (729)^{\frac{1}{3}}$  is

→ 342

2) The value of  $\sqrt{1521} \times \sqrt{1849}$  is

→ 1677

3) The value of  $[(256)^{-\frac{3}{4}}]^{\frac{1}{5}}$  is

→  $\frac{1}{4}$

4) The value of  $8/(\sqrt{5} - 2)$  is

→  $8(\sqrt{5} + 2)$  or 25.888

5) If  $10/6$  is expressed as  $a + 1/(b + 1/c)$ , then the value of  $a + 2b + 3c$  is

→ 9

6) The digit in units place of  $4^n + 6^m$ , if  $n$  is even is

→ 2

7) The coefficient of  $x^2$  in  $2x^3 - x^4 + 3x + 1$  is

→ 0

8) The value of  $\log_{10}(\csc^2 \theta - \cot^2 \theta)$  is

→ 0

9) Degree of polynomial  $3x^4 + 6x - 4x^5 + 5x^2 + x + 2$  is

→ 5

10) Number of elements in the set  $A - B$ , if  $A \subset B$ , is

→ 0

11) Sum of sum and product of zeros of  $x^2 - 7x + 10$  is

→ 17

12) In  $\triangle ABC$ ,  $\angle B = 90^\circ$ ,  $AC = \sqrt{37}$  units,  $AB = 6$  unit, then  $BC = \underline{\hspace{1cm}}$  units

→ 1

## Scoreboard

	<b>Team A</b>	<b>Team B</b>	<b>Team C</b>	<b>Team D</b>	<b>Team E</b>	<b>Team F</b>
	Shri Shivaji Highschool, Nanded	Gujrati Highschool, Nanded	Indira International Public School, Nanded	Mahatma Phule Highschool, Vijaynagar, Nanded	Sandeepani Public School, Nanded	Mahatma Phule Highschool, Babanagar, Nanded
Q.1	10					
Q.2		0				
Q.3					-5	
Q.4					5	
Q.5					10	
Q.6				-5		
Q.7	0					
Q.8	5		-5			
Q.9					5	
Q.10		-5	5			-5
Q.11		-5				
Q.12		5				
Q.13	-5	5				
Q.14		10				
Q.15			10			
Q.16				0		
Q.17			-5			
Q.18						10
Q.19		-5	-5	-5		-5
Q.20		10				
Q.21					5	
Q.22						5
Q.23						5
Q.24						10
Q.25						-5
Q.26		0				
Q.27						5
Q.28				0		
Q.29					10	
Q.30						10
Q.31	0					
Q.32			-5			-5
Q.33			0			
Q.34				0		
Q.35					0	
Q.36						0
Q.37		5				
Q.38		10				
Q.39				-5	5	
Q.40					5	
Q.41						5
Q.42						10
Q.43						10
Q.44					-5	
Q.45			5			
Q.46			10			
Q.47		10				
Q.48	10					
TOTAL	20	40	10	-15	35	50

**Maths Quiz Competition - 2024-25**

(District Level : Nanded District)

Yeshwant Mahavidyalaya, Nanded

**Students Teams Selected for University Level Final Competition**

<b>Rank</b>	<b>Student Names</b>	<b>School Name</b>	<b>Head Master</b>
1	Gaglegaonkar Gauri Nagnath Tanhvi Ashok Rathod Pruthviraj Punjabrao Deshmukh Krushna Sandeep Pund	Mahatma Phule High School, Babanagar, Nanded	Sow. Kadam Surekha 9421839631
2	Shivam Vasant Jarikote Nikhil Balaji Mahajan Ganesh Uddhavrao Jayebhaye Vedant Kalyan Sonwale	Gujrati Highschool, Nanded	Shri R.S.Sumthankar 9422174028

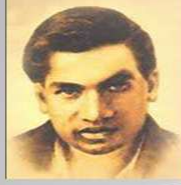


Department of Mathematics & Statistics  
Yeshwant Mahavidyalaya, Nanded  
&  
School of Mathematical Sciences



Swami Ramanand Teerth Marathwada University, Nanded

# NATIONAL MATHEMATICS DAY MEGA MATHS QUIZ COMPETITION & MODEL MAKING COMPETITION



Nanded District

28<sup>th</sup> December 2024

Event Banner



## ‘यशवंत’मध्ये गणितीय प्रश्नमंजुषा व प्रतिकृती स्पर्धांचे आयोजन

नांदेड (प्रतिनिधी) – केंद्र सरकार, नॅशनल काउन्सिल फॉर सायन्स अँड टेक्नॉलॉजी कम्युनिकेशन, डिपार्टमेंट ऑफ सायन्स अँड टेक्नॉलॉजी, नवी दिल्ली, महाराष्ट्र सरकार, राजीव गांधी सायन्स अँड टेक्नॉलॉजी कमिशन संस्था आणि गणित व संख्याशास्त्र विभाग, यशवंत महाविद्यालयाच्या वतीने राष्ट्रीय गणित दिवसाच्या निमित्ताने नांदेड जिल्ह्यातील शालेय विद्यार्थ्यांसाठी दि. २८ डिसेंबर, शनिवार रोजी सकाळी दहा वाजता गणित व संख्याशास्त्र विभागात दोन स्पर्धांचे आयोजन करण्यात आले आहे.

इयत्ता दहावी वर्गातील विद्यार्थ्यांसाठी प्रश्नमंजुषा स्पर्धा असून, यात प्रत्येक शाळेच्या ४ विद्यार्थ्यांचा एक संघ सहभागी होऊ शकतो. इयत्ता सहावी ते दहावी या वर्गातील विद्यार्थ्यांसाठी गणितीय प्रतिकृती



(मॉडेल मेकिंग) स्पर्धा असून यासाठी एका शाळेतून ५ विद्यार्थी ५ गणितीय प्रतिकृतीसह सहभाग घेऊ शकणार आहेत. सहभागासाठी ऑनलाईन नावनोंदणीची सुविधा उपलब्ध करून देण्यात आलेली आहे या दोन्ही स्पर्धा जिल्हास्तरीय असून यातील प्रश्नमंजुषा स्पर्धेतील पहिले २ संघ व गणितीय प्रतिकृती स्पर्धेतील पहिल्या ५ प्रतिकृती या स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठात दि. ३१ डिसेंबर रोजी होणाऱ्या अंतिम फेरीसाठी

पात्र ठरणार आहेत.

विद्यार्थ्यांचा गणिताकडे कल वाढावा आणि स्वतंत्रपणे व वेगळ्या प्रकारे विचार करण्यास वाव मिळावा तसेच समकक्ष अभ्यासार्थीसोबत बुद्धिमत्तेचा कस तपासायचा मंच मिळावा, हे स्पर्धांमागील उद्देश असून त्यात शाळांनी मोठ्या प्रमाणावर सहभागी होण्याचे आवाहन स्पर्धा समन्वयक माजी प्र-कुलगुरू तथा विद्यमान प्राचार्य डॉ. गणेशचंद्र एन. शिंदे, उपप्राचार्या डॉ. कविता सोनकांबळे तथा डॉ. हरिश्चंद्र पतंगे, गणित विभागप्रमुख डॉ. एन.ए. पांडे, डॉ. व्ही.सी. बोरकर, प्रा. सचिन वडने, प्रा. नागेश पवार, प्रा. कोमल देशमुख, प्रबंधक संदीप पाटील, अधीक्षक कालिदास बिरादार व गजानन पाटील आणि प्रसिद्धी समन्वयक डॉ. अजय गव्हाणे यांनी केले आहे.

Main Edition

Dec 27, 2024 Page No. 3

Newspaper Clipping



NATIONAL MATHEMATICS DAY  
MEGA MATHS QUIZ COMPETITION



Nanded District  
28<sup>th</sup> December 2024

**CERTIFICATE OF PARTICIPATION**

This is to certify that Mr./Ms. \_\_\_\_\_  
from the school \_\_\_\_\_  
has participated in **Mega Math Quiz Competition**, Nanded District, on the occasion of celebration of National Mathematics Day-2024, organized by **Yeshwant Mahavidyalaya, Nanded** in collaboration with School of Mathematical Sciences, **Swami Ramanand Teerth Marathwada University, Nanded** on 28<sup>th</sup> December 2024. This program is catalyzed and supported by National Council for Science and Technology Communication, Department of Science & Technology (DST), Govt. of India and Rajiv Gandhi Science and Technology Commission (RGSTC), Govt. of Maharashtra. He/She won \_\_\_\_\_ prize.

**Dr.N.A.Pande**  
**Coordinator**

Department of Mathematics & Statistics  
Yeshwant Mahavidyalaya, Nanded

**Dr.G.N.Shinde**  
**Principal**

Yeshwant Mahavidyalaya, Nanded





NATIONAL MATHEMATICS DAY  
MEGA MATHS QUIZ COMPETITION



Nanded District  
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**Coordinator**

Department of Mathematics & Statistics  
Yeshwant Mahavidyalaya, Nanded

**Dr.G.N.Shinde**  
**Principal**

Yeshwant Mahavidyalaya, Nanded

## Photo Glimpses





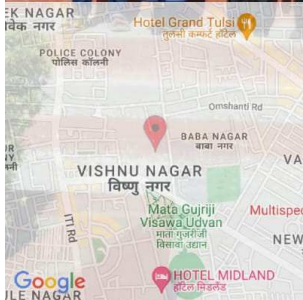


5895+RJ4, Bhagya Nagar Road, Vishnu Nagar, Nanded, Nanded-Waghala, Maharashtra 431602, India

Nanded  
Maharashtra  
India

2024-12-28(Sat) 10:43(am)

27°C  
81°F

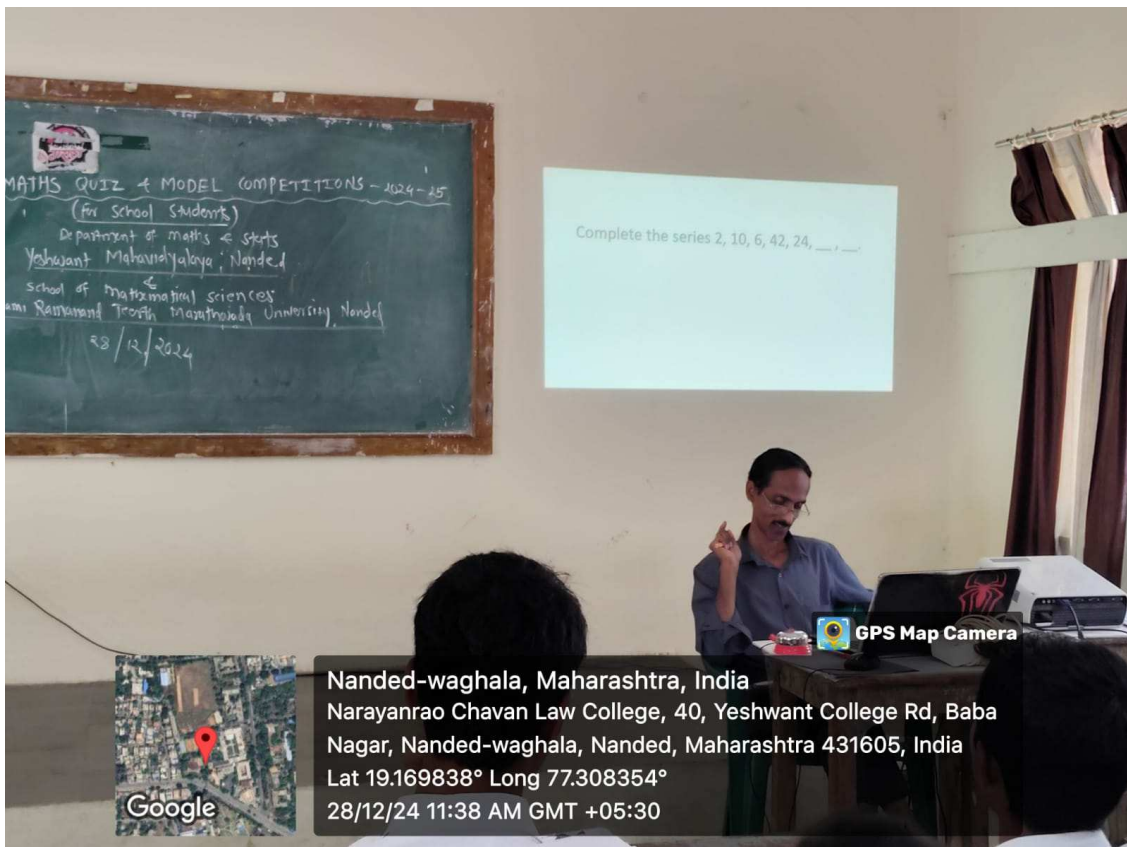


5895+RJ4, Bhagya Nagar Road, Vishnu Nagar, Nanded, Nanded-Waghala, Maharashtra 431602, India

Nanded  
Maharashtra  
India

2024-12-28(Sat) 10:42(am)

27°C  
81°F





Dr.N.A.Pande