

Madhava Mathematics Competition

(A Mathematics Competition for Undergraduate Students)

Organized by

Department of Mathematics, S. P. College, Pune

and

Homi Bhabha Centre for Science Education, T. I. F. R., Mumbai

Funded by

National Board for Higher Mathematics

The Competition is named after Madhava, who introduced in the fourteenth century, profound mathematical ideas that are now part of Calculus. His most famous achievements include the Madhava-Leibnitz series for π , the Madhava-Newton power series for Sine and Cosine functions and a numerical value of π that is accurate to eleven decimal places. The "Madhava School", consisting of a long chain of teacher-student continuity, flourished for well over two centuries, making significant contributions to mathematics and astronomy.

A MATHEMATICS COMPETITION FOR S.Y.B.Sc. STUDENTS

Interested Students of F.Y.B.Sc. and T.Y.B.Sc. are also eligible.

(A separate merit list of T.Y.B.Sc. will be prepared.)

Prizes :

- Attractive Cash Prizes and Medals for Rank Holders
- Several Cheer Prizes
- Participation Certificate to All Students
- Nurture Camp for select students

This Year Madhava Mathematics Competition Will be Conducted ONLINE.

Day and Date : Sunday, 7th February 2021.

Time : 12 noon to 1.30 p.m.

Student must register ONLINE using the registration link for the respective region, which will be available with the reg. Co-ordinator

Region : Jharkhand-Chhattisgarh Regional Co-ordinator : Dr. Vinodkumar Pathak

Registration Link : <https://www.smartcomputerindia.com/madhava/MadhavaRegistration.aspx?utmcc=1>

Registration Fee : Rs. 100/-

Last Date for Registration : Sunday, January 24, 2021

Chief Coordinator : Dr. V. M. Sholapurkar

Head, Center For Post-Graduate Studies in Mathematics,

S. P. College, Pune 411 030. E-mail : info@madhavacompetition.in

For more details about the competition : Please visit

<https://www.madhavacompetition.in> ■ <http://www.hbcse.tifr.res.in>


Principal

Madan Lal Sahu Govt. Coller
Armarikala, Distt. Balod (C. U.)

Madhava Mathematics Competition (2020-21)

(A National level Undergraduate math Competition Jointly organized by S.P. College, Pune and HBCSE, Mumbai)

1. This Year the competition will be conducted **Online**. The agency (Smart Computer Pvt. Ltd.) is appointed to conduct the online exam.
Scope of the agency : registration process, online payment of registration fee, conducting mock test, conducting main test, issuing of participation certificates

2. **Registration process :**

A separate registration link will be provided to each regional coordinator before 24th December 2020. Then each regional coordinator will advertise the competition in the respective region. The same link will also be available on the MMC website. The list of all regional coordinators is available on the website of MMC

www.madhavacompetition.com

All the students should register in the respective region.

Registration dates: **24th December 2020 to 24th January 2021.**

Registration fee: Rs. 100 per student (online payment)

The registration form will have the following fields

Name of student, Name of College, Class, Email id, Mobile number, Link for the payment.

For any technical support you may send mail to

works@smartcomputerindia.com

3. A student must have a laptop or tablet or smart phone with camera and good internet connectivity.

4. Every registered student will get login details through mail by the agency

5. The online mock test will be conducted on Sunday, 31st January 2021 at 12 noon

6. The competition will be held in TWO rounds.

7. First Round :

Date of MMC : Sunday, 7th February 2021

Time : 12 Noon to 1.30 PM

8. **Nature of the Question Paper for the First Round:**

There are three parts : **(Total marks 50)**

i. MCQ with single correct : 10 questions (2 marks for correct answer and -1 mark for incorrect answer)

ii. Numerical questions : 10 questions (2 marks for correct answer)

iii. MCQ multiple select : 5 questions (2 marks for correct answer)

9. All participants of the first round will get participation certificate

10. Among all participants at least **top 1%** students will be selected for the second round. The second round will be conducted on **Sunday, 14th February 2021** (Descriptive offline exam of 50 marks)

11. Selection of the prize winners will be made from the performance on the second round.

12. Two nurture camps will be conducted for the selected participants.


Principal

Madan Lal Sahu Govt. College,
Armarikata, Distt. Balod (C.G.)


Dr. V.K. Pathak

Regional Coordinator

Madhava Mathematics Competition

Registrar

Bastar University Jagdalpur (C.G.)



कार्यालय – प्राचार्य

मदनलाल साहू शासकीय महाविद्यालय अरमरीकला, जिला –बालोद

email id : govtcollegearm@gmail.com

website: www.gc-armarikala.in

अरमरीकला, दिनांक – 10/01/2021

// सूचना //

बी.एस.सी. (गणित) – प्रथम, द्वितीय एवं तृतीय वर्ष के समस्त छात्र/छात्राओं को सूचित किया जाता है कि इस वर्ष Madhava Mathematics Competition परीक्षा दिनांक 7 फरवरी 2021 को आयोजित होगी जिसके लिए Registration की प्रक्रिया दिनांक 24 जनवरी 2021 होगी Registration एवं Exam, Online होगी जिसकी प्रक्रिया सूचना फलक में निम्नकाया गया है तथा अधिक जानकारी के लिए गणित विभाग के विभागाध्यक्ष डॉ. एकएल मानकर मा. नं. – 9425561125 से संपर्क कर सकते हैं।

विभागाध्यक्ष

गणित विभाग

प्रभारी प्राचार्य

Principal

Madan Lal Sahu Govt. College
Armarikala, Dist. Balasore

MADHAVA MATHEMATICS COMPETITION - 2021

SR.No.	Reg. No.	Student Name	College Region	College Name	Class	Online Test Marks	Remark
52	MMMC204151	Moumita Bhawanik	Jharkhand-Chhattisgarh	Dr. Radh Bai Govt. Naveen Girls College, Raipur(C.G.)	F.Y.B.Sc.	-5	
53	MMMC203967	Selashy Rawani	Jharkhand-Chhattisgarh	Dr. Radh Bai Govt. Naveen Girls College, Raipur(C.G.)	F.Y.B.Sc.	0	
54	MMMC204382	Dhaleshwar Kumar	Jharkhand-Chhattisgarh	Dr. Radh Bai Govt. Naveen Girls College, Raipur(C.G.)	S.Y.B.Sc.	-2	
55	MMMC204989	Ladi Khatoon	Jharkhand-Chhattisgarh	Dr. Radh Bai Govt. Naveen Girls College, Raipur(C.G.)	F.Y.B.Sc.	-5	
56	MMMC204048	Neha Saw	Jharkhand-Chhattisgarh	Dr. Radh Bai Govt. Naveen Girls College, Raipur(C.G.)	F.Y.B.Sc.	17	
57	MMMC200501	Anusha Shrivastava	Jharkhand-Chhattisgarh	Govt. Bilasa Girls PG College, Bilaspur	F.Y.B.Sc.	5	
58	MMMC204326	Moopika	Jharkhand-Chhattisgarh	Govt. College Armarikala, Dist. - Balod (C.G.)	F.Y.	0	
59	MMMC204191	Nutan Sahu	Jharkhand-Chhattisgarh	Govt. College Armarikala, Dist. - Balod (C.G.)	F.Y.	-1	
60	MMMC201779	Sommit Kumar Sahu	Jharkhand-Chhattisgarh	Govt. College Armarikala, Dist. - Balod (C.G.)	F.Y.	-3	
61	MMMC202233	Mronika	Jharkhand-Chhattisgarh	Govt. College Armarikala, Dist. - Balod (C.G.)	F.Y.B.Sc.	0	Logged In But not Submitted
62	MMMC201245	Lokeswar	Jharkhand-Chhattisgarh	Govt. College Armarikala, Dist. - Balod (C.G.)	T.Y.B.Sc.	6	
63	MMMC202591	Rensika	Jharkhand-Chhattisgarh	Govt. College Armarikala, Dist. - Balod (C.G.)	T.Y.B.Sc.	-7	
64	MMMC202856	Bhupendra Kumar	Jharkhand-Chhattisgarh	Govt. Dignay P.G. College, Rajnandgaon(C.G.)	F.Y.B.Sc.	3	
65	MMMC201495	Jageshwar Verma	Jharkhand-Chhattisgarh	Govt. Dignay P.G. College, Rajnandgaon(C.G.)	F.Y.B.Sc.	1	
66	MMMC204284	Rubi Chaudhari	Jharkhand-Chhattisgarh	Govt. Dignay P.G. College, Rajnandgaon(C.G.)	F.Y.B.Sc.	-7	
67	MMMC202968	Prashwar	Jharkhand-Chhattisgarh	Govt. Dignay P.G. College, Rajnandgaon(C.G.)	F.Y.B.Sc.	0	Logged In But not Submitted
68	MMMC202177	Meenakshi	Jharkhand-Chhattisgarh	Govt. Dignay P.G. College, Rajnandgaon(C.G.)	F.Y.B.Sc.	-5	

MADHAVA MATHEMATICS COMPETITION
(A Mathematics Competition for Undergraduate Students)

Organized by
Department of Mathematics, S. P. College, Pune
and
Homi Bhabha Centre for Science Education, T.I.F.R., Mumbai

Date: 12/01/2021

Max. Marks: 100

Time: 12:00 noon to 1:00 pm.

N.B.: Part I carries 20 marks, Part II carries 30 marks and Part III carries 50 marks.

Part I

N.B. Each question in Part I carries 2 marks.

1. Let A be a non-empty subset of real numbers and $f: A \rightarrow A$ be a function such that $f(f(x)) = x$ for all $x \in A$. Then $f(x)$ is
A) a bijection. B) surjective but not onto.
C) onto but not one-to-one. D) neither surjective nor onto.
2. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be a function satisfying $f(x+y) = f(x)f(y)$ for all $x, y \in \mathbb{R}$ and $f(4) = 16$, then $f(9/16) =$
A) 9/16 B) 0 C) 3/2 D) 3/4
3. The area enclosed between the curves $y = \sin^2 x$ and $y = \cos^2 x$ in the interval $0 \leq x \leq \pi/2$ is
A) 2 B) 1/2 C) 1 D) 3/4
4. The number of ordered pairs (m, n) of all integers satisfying $\frac{m}{12} + \frac{n}{9} = 1$ is
A) 15 B) 30 C) 12 D) 10
5. Suppose $2 \log x + \log y = x - y$. Then the equation of the tangent line to the graph of this equation at the point $(1, 1)$ is
A) $x - 2y = 3$ B) $x - 2y = 3$ C) $2x + y = 3$ D) $2x - y = 3$
6. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ defined as $f(x) = \sin(\{x\})$, where $\{x\}$ denotes the greatest integer less than or equal to x . Then
A) f is a 2π -periodic function B) f is a π -periodic function
C) f is a 1-periodic function D) f is not a periodic function.
7. For how many integers n with $1 \leq n \leq 100$, n^2 is a square?
A) 50 B) 51 C) 55 D) 56
8. $\lim_{x \rightarrow 0} x \left[\frac{1}{x} \right]$
A) 0 B) 1 C) -1 D) does not exist.
9. If α and β are the roots of $x^2 + 3x + 1 = 0$, then $\left(\frac{\alpha}{\beta + 1} \right)^2 + \left(\frac{\beta}{\alpha + 1} \right)^2$ equals
A) 10 B) 18 C) 20 D) 17
10. The equation $|z^2 + 2z - 1| = 0$ has
A) no real root. B) exactly one real root.
C) three real roots. D) exactly two real roots.


Principal

Madan Lal Sahu Govt. College,
Armarikala, Dist. Balod (C.G.)

Part II

N.B. Each question in Part II carries 6 marks.

- Let a_1, a_2, \dots be a sequence of natural numbers. Let (a, b) denote the greatest common divisor (gcd) of a and b . If $(a_{n+1}, a_n) = (a_n, a)$ for all $n \in \mathbb{N}$, prove that $a_n = n$ for all $n \in \mathbb{N}$.
- Let $f: \mathbb{C} \rightarrow \mathbb{C}$ be a function such that $f(z) f(z) = z^2$ for all $z \in \mathbb{C}$. Prove that $f(z) + f(-z) = 0$ for all $z \in \mathbb{C}$. Find such a function.
- Let n be a positive integer. Line segments can be drawn parallel to sides of a given rectangle. What is the maximum number of line segments (not necessarily of same length) that are required so as to divide the rectangle into n sub-rectangles? Justify.



For example, in the adjacent figure, 3 segments are drawn to get 5 sub-rectangles and 3 is the minimum number.

- Let $f: [0, 1] \rightarrow (0, \infty)$ be a continuous function satisfying $\int_0^1 f(x) dx = \frac{1}{3}$. Show that there exists $c \in (0, 1)$ such that $\int_0^c f(x) dx = c - \frac{1}{2}$.
- Let $A = \begin{pmatrix} -1 & 1 \\ 0 & -2 \end{pmatrix}$. Show that there exist matrices X, Y such that $A = X^2 + Y^2$.

Part III

- Let $f: (0, \infty) \rightarrow \mathbb{R}$ be a continuous function satisfying $f(1) = 5$ and $f\left(\frac{x+y}{2}\right) = f(x) + 2$ for all positive real numbers x .
 - Find $\lim_{x \rightarrow \infty} f(x)$.
 - Show that $\lim_{x \rightarrow \infty} f(x) = \infty$.
 - Find one example of such a function. [12]
- An $n \times n$ matrix $A = (a_{ij})$ is given. The sum of any k entries of A , whose any two entries lie on different rows and different columns, is the same.
 - Prove that there exist numbers x_1, x_2, \dots, x_n and y_1, y_2, \dots, y_n such that $a_{ij} = x_i + y_j$ for all i, j , $1 \leq i, j \leq n$.
 - Prove that $\text{rank}(A) \leq 2$. [12]
- Let $J \subseteq \mathbb{R}$ be an interval and $f: J \rightarrow \mathbb{R}$ be a differentiable function. Let

$$J = \left\{ \frac{f(b) - f(a)}{b-a} : a, b \in J, a < b \right\}$$

Show that (i) J is an interval.

(ii) $J \subseteq f'(D)$ and $f'(D) - J$ contains at most two elements. [12]

- Let q, n be positive integers such that $1 < q < n$ and $\gcd(q, n) = 1$.
 - Show that there exist unique integers k, r such that $n = kq + r$, $0 \leq r < q$.
 - Show that there exists a unique positive integer a_1 and unique integers b_1, b_2, \dots, b_{a_1} all ≥ 2 satisfying $\frac{n}{q} = b_1 + \frac{1}{b_2 + \frac{1}{\dots + \frac{1}{b_{a_1}}}}$.

(c) If $b_1 > 2$ for some j , then show that $\sum_{i=1}^{a_1} (b_i - 2) < 2(n - q) - 1$. [13]

Safina
Principal

कार्यालय – प्राचार्य

मदन लाल साहू शासकीय महाविद्यालय अरमरीकला, जिला –बालोद

email id : govtkollegearm@gmail.com

website: www.gc-armarikala.in

क्रमांक – /M.M.C./2019-20

, अरमरीकला, दिनांक -10/01/2020

// आदेश //

महाविद्यालय के वी एस्सी (गणित समूह) प्रथम द्वितीय एवं तृतीय वर्ष के छात्र/छात्राओं को दिनांक 12/01/2020 रविवार को समय दोपहर 12:00 बजे से अपरान्ह 03:00 बजे तक माध्यम मैथेमेटिक्स परीक्षा आयोजित है। जिन्हें सम्बन्ध कारणों के लिए निम्न अधिकारी एवं कर्मचारियों की ड्यूटी लगाई जाती है।

- | | |
|--|-------------------|
| 1. डॉ. एच.एल.मानकर (सहा.अध्यक्ष, गणित) | - जन्दापट्ट |
| 2. श्री मधुनाथ डवानन (प्रयो.तक) | - सहायक जन्दापट्ट |
| 3. श्री मनीष कुमार सागर | -कार्यालयीन सहायक |

उपरोक्त अधिकारी एवं कर्मचारी परीक्षा को सफलतापूर्वक सम्पन्न कराने हेतु आवश्यक कार्यावाही पूर्व में कर लें तथा परीक्षा दिनांक को निर्धारित समय को एक घण्टे पूर्व (समय 11:00 बजे तक) उपस्थित होना सुनिश्चित करें।


Principal
Madan Lal Sahu Govt. College
Armarikala, Distt. Balod (C.O.)

MADHAVA MATHEMATICS COMPETITION
 (A Mathematics Competition for Undergraduate Students)
 Organized by
 Department of Mathematics, S. P. College, Pune
 and
 Homi Bhabha Centre for Science Education, T.I.F.R., Mumbai

Date: 12/01/2020

Max. Marks: 100

Time: 12:00 noon to 3:00 p.m.

N.B.: Part I carries 20 marks, Part II carries 30 marks and Part III carries 50 marks.

Part I

N.B. Each question in Part I carries 2 marks.

1. Let A be a non-empty subset of real numbers and $f: A \rightarrow A$ be a function such that $f(f(x)) = x$ for all $x \in A$. Then $f(x)$ is
 A) a bijection. B) surjective but not onto.
 C) injective but not one-one. D) neither one-to-one nor onto.
2. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be a function satisfying $f(x+y) = f(x) + f(y)$ for all $x, y \in \mathbb{R}$ and $f(3,4) = 3/4$, then $f(9,16) =$
 A) $9/16$ B) 0 C) $3/2$ D) $3/4$
3. The area enclosed between the curves $y = \sin^2 x$ and $y = \cos^2 x$ in the interval $0 \leq x \leq \pi/2$ is
 A) 2 B) $1/2$ C) 1 D) $3/4$
4. The number of ordered pairs (m, n) of all integers satisfying $\frac{m}{12} = \frac{12}{n} = 2$ is
 A) 15 B) 30 C) 12 D) 18
5. Suppose $2 \log x - \log y = x - y$. Then the equation of the tangent line to the graph of this equation at the point $(1, 1)$ is
 A) $x + 2y = 3$ B) $x + 2y = 1$ C) $2x + y = 3$ D) $2x - y = 1$
6. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ defined as $f(x) = \sin(x) + \cos(x)$. Then the greatest integer less than or equal to x . Then
 A) f is a 2π -periodic function. B) f is a π -periodic function.
 C) f is a 3π -periodic function. D) f is not a periodic function.
7. For how many integers x with $1 \leq x \leq 400$, x^2 is not square?
 A) 50 B) 51 C) 55 D) 56
8. $\lim_{x \rightarrow 0} x \left[\frac{1}{x} \right]$
 A) 0 B) 1 C) -1 D) does not exist
9. If α and β are the roots of $x^2 + 3x + 1$ then $\left(\frac{\alpha}{\beta + 1} \right)^2 + \left(\frac{\beta}{\alpha + 1} \right)^2$ equals
 A) 19 B) 18 C) 20 D) 17
10. The equation $x^2 + ix + 1 = 0$ has
 A) no real root. B) exactly one real root.
 C) three real roots. D) exactly two real roots.

Sahane
 Principal
 Jnan Lal Sahju Govt. Collge
 Amarnikala, Distt. Baiod (C.G.)

MADHAVA MATHEMATICS COMPETITION

(A Mathematics Competition for Undergraduate Students)

Organized by

Department of Mathematics, S. P. College, Pune
and

Homi Bhabha Centre for Science Education, T.I.F.R., Mumbai

Funded by

National Board for Higher Mathematics

The competition is named after Madhava, who introduced in the fourteenth century, profound mathematical ideas that are now part of Calculus. His most famous achievements include the Madhava-Leibnitz series for π , the Madhava-Newton power series for Sine and Cosine functions and a numerical value of π that is accurate to eleven decimal places. The "Madhava School", consisting of a long chain of teacher-student continuity, flourished for well over two centuries, making significant contributions to mathematics and astronomy.

A MATHEMATICS COMPETITION FOR S.Y.B.Sc. STUDENTS

Interested students of F.Y.B.Sc. and T.Y.B.Sc. are also eligible.
(A separate merit list of T.Y.B.Sc. will be prepared.)

Prizes :

- Attractive Cash Prizes and Medals for Rank Holders
- Several Cheer Prizes
- Participation Certificate to All Students
- Nurture Camp for select students

Examination Timing
12 noon to 3.00 p.m.

Day and Date of Examination : Sunday, January 12, 2020

**For Registration
contact**

**Department of Mathematics
of your college.**

Centre Coordinator :

Dr. V. K. Pathak
Mob. : 09425516295

Registration Fee : Rs. 100/-

Last Date for Registration : Thursday, October 24, 2019

Chief Coordinator : Dr. V. M. Sholapurkar

Head, Center for Post-Graduate Studies in Mathematics,
S. P. College, Pune 411 030. E-mail : info@madhavacompetition.com

For more details about the competition : Please visit
<http://www.madhavacompetition.com> ■ <http://www/hbcse.tifr.res.in>


Principal

Madan Lal Sahu Govt. College
Srimarketa Dist. Balasore (O.O.)

Madan Lal Sahu Govt. College Armarikala, Dist. - Balod (C.G.)

Attendance Sheet of Candidates for MMC Examination Year 2019-20

Exam Date : 12/01/2020

Time : 12:00 P.M. to 03:00 P.M.

Name of Exam Center : Govt. College Armarikala, Dist. - Balod (C.G.)

S.NO.	Roll No.	NAME OF STUDENT	FATHER/HUSBAND NAME	Class	Signature of Candidate
25	ARK25	NEKESHWAR	NANSINGH	B.Sc-I	Nekeshwar
26	ARK26	PREETI SAHU	CHA RAM	B.Sc-II	Preeti
27	ARK27	TOMESHWARI	RAKESH KUMAR	B.Sc-II	Tomeswari
28	ARK28	DIVYA	POSHAN LAL	B.Sc-II	Divya
29	ARK29	HANSNANDINI	RAVESH KUMAR	B.Sc-I	Hansnandini
30	ARK30	LUKESHWAR	AVADH RAM	B.Sc-II	Lukeshwar
31	ARK31	DEMAN LAL	SEMAL LAL	B.Sc-II	Demanalal
32	ARK32	PRATAP SINGH	MUKESH KUMAR	B.Sc-I	Pratap Singh
33	ARK33	PALLAVI	HARBAN SINGH	B.Sc-II	Pallavi
34	ARK34	SHUBHAM	THANESHWAR LAL	B.Sc-II	Shubham
35	ARK35	GEETANJALI	ISHWAR LAL	B.Sc-II	Geetanjali
36	ARK36	JHARNA	BASANT KUMAR	B.Sc-II	Jharna
37	ARK37	PREETI SUDHA	PARMESHWAR	B.Sc-II	Preeti sudha
38	ARK38	LAKESHWARI	BHARAN RAM	B.Sc-II	Lakeshwari
39	ARK39	TAKESHWARI	NARANJAN	B.Sc-II	Takeshwari

No. of Present	
No. of Absent	
Total	

Sign. Of Invigilator

Sapna
Principal
Madan Lal Sahu Govt. College
Armarikala, Dist. Balod (C.G.)
Sign. Of Exam Superintendent



कार्यालय – प्राचार्य

शासकीय महाविद्यालय अरमरीकला, जिला –बालोद (छ.ग.)

email id : govtcollegearm@gmail.com

website: www.gc-armarikala.in

क्रमांक - 42 / स्था. / 2019

अरमरीकला, दिनांक - 15/01/2019

प्रति,

डॉ. बी.के. शर्मा,

भूतपूर्व विभागाध्यक्ष (SOS, Mathematics)

पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.)

विषय :- "Avenue in Mathematics" विषय पर व्याख्यान हेतु आमंत्रण।

.....00.....

उपरोक्त विषयान्तर्गत लेख है कि शासकीय महाविद्यालय अरमरीकला, जिला बालोद (छ.ग.) में दिनांक 18/01/2019 को विज्ञान संकाय के छात्र/छात्राओं हेतु "Avenue in Mathematics" विषय पर कार्यशाला पर आयोजित किया जाना है। विज्ञान संकाय के छात्र/छात्राओं को गणित विषय में मार्गदर्शन देने हेतु आप सादर आमंत्रित है।


(डॉ. सपना कौर)
प्राचार्य
Govt. College Armarikala
Distt -Balod (C.G.)



कार्यालय – प्राचार्य
शासकीय महाविद्यालय अरमरीकला, जिला –बालोद (छ.ग.)

email id : govtcollegearm@gmail.com

website: www.gc-armarikala.in

अरमरीकला, दिनांक – 10/1/2019

// सूचना //

महाविद्यालय के बी.एससी.(गणित समूह) में अध्ययनरत समस्त प्रथम, द्वितीय एवं तृतीय वर्ष के छात्र/छात्राओं को सूचित किया जाता है कि दिनांक 18/01/2019 को "Avenue in Mathematics" विषय पर कार्यशाला पर आयोजित है। अतः गणित समूह के अध्ययनरत समस्त छात्र/छात्रा को निर्धारित समय में महाविद्यालय में उपस्थित होना अनिवार्य है।

Jan_Arm_2019_30


प्राचार्य
Govt. College Armarikala
Distt.-Balasor (C.G.)

Madan Lal Sahu Govt. College Armarikala, Dist. - Balod (C.G.)

Attendance Sheet of Candidates for MMC Examination Year 2019-20

Exam Date : 12/01/2020

Time : 12:00 P.M. to 03:00 P.M.

Name of Exam Center : Govt. College Armarikala, Dist. - Balod (C.G.)

S.NO.	Roll No.	NAME OF STUDENT	FATHER/HUSBAND NAME	Class	Signature of Candidate
1	ARK1	SOMNATH	NARENDRA KUMAR	B.Sc-II	सोमनाथ
2	ARK2	GAJENDRA	DHANRAJ SAHU	B.Sc-I	गजेन्द्र
3	ARK3	YOGENDRA	DEVI	B.Sc-I	योगेन्द्र
4	ARK4	SARITA DEWANGAN	GANESHWAR DEWANGAN	B.Sc-I	Sarita
5	ARK5	HEMLATA DEWANGAN	BIRBAL DEWANGAN	B.Sc-I	Hemlata
6	ARK6	BHUMIKA SAHU	BHEN RAM	B.Sc-I	Bhumika
7	ARK7	VAISHNAV	BHESH KUMAR	B.Sc-I	Vaishnav
8	ARK8	KHILENDRA KUMAR	RANCHAND SARWA	B.Sc-I	
9	ARK9	NAVEEN KUMAR	LAXMINARAYAN	B.Sc-I	नवीन कुमार
10	ARK10	KARTIK	SHRAVAN KUMAR	B.Sc-I	Kartik
11	ARK11	GOPESHWAR	SALIK RAM	B.Sc-I	
12	ARK12	PARAS	THAMAN LAL	B.Sc-I	
13	ARK13	MADHUSUDHAN	THAMAN LAL	B.Sc-I	मधुसूदन
14	ARK14	TORAN LAL	BUDHARU RAM	B.Sc-I	तोरण लाल
15	ARK15	TRIBHUVAN KUMAR	DALAM SINGH	B.Sc-I	त्रिभुवन कुमार
16	ARK16	CHANDRIKA	BHAGWAT KUMAR	B.Sc-I	चन्द्रिका
17	ARK17	CHENESHWAR	NAROTTAM	B.Sc-I	
18	ARK18	HIMANCHAL	ANIT KUMAR	B.Sc-I	हिमांचल कुमार
19	ARK19	SHAMALA	SHATRUJHAN	B.Sc-I	Shamala
20	ARK20	JAGENDRA KUMAR	SANTOSH KUMAR	B.Sc-I	जगेन्द्र कुमार
21	ARK21	NOMESHWAR	BHIMA SINGH	B.Sc-I	नोमेश्वर
22	ARK22	TAPAS RANJAN	RUPENDRA SAHU	B.Sc-I	Tapas
23	ARK23	YOURAJ	RAM KUMAR	B.Sc-I	
24	ARK24	SAHDEV	PUSPA RAM	B.Sc-I	Sahdev

Lalmani
Principal

Madan Lal Sahu Govt. College
Armarikala, Dist. Balod (C.G.)



कार्यालय – प्राचार्य
शासकीय महाविद्यालय अरमरीकला, जिला – बालोद(छ.ग.)
website : www.gc-armarikala.in

दिनांक :- 01/01/2019

// सूचना //

महाविद्यालय के बी.एससी.(गणित समूह) में अध्ययनरत समस्त प्रथम, द्वितीय एवं तृतीय के छात्र/छात्राओं को सूचित किया जाता है कि दिनांक 06/01/2019, रविवार को समय दोपहर 12:00 से अपरान्ह 03:00 बजे तक माधव मेथेमेटिक्स परीक्षा आयोजित होगा। परीक्षार्थियों को निर्धारित समय के 3 घण्टे पूर्व (समय 11:30 बजे तक) महाविद्यालय में उपस्थित अनिवार्य है।


Principal
Govt. College Armarikala
Distt.- Balod(C.G.)

Jan_Arm_2019_1


Jagan Lal Saru Govt. College
Armarikala, Distt. Balod (C.G.)

Govt. College Armarikala, Dist. - Balod (C.G.)

Attendance Sheet of Candidates for M/MC Examination Year 2018-19

Exam Date : 06/01/2019

Time : 12:00 P.M. to 03:00 P.M.

Name of Exam Center : Govt. College Armarikala, Dist. - Balod (C.G.)

S.NO.	Roll No.	NAME OF STUDENT	FATHER/HUSBAND NAME	Class	Signature of Candidate
1	GCA001	DEMAN LAL	SEMAN LAL	B.Sc. I	डेमनलाल
2	GCA002	DIVYA	POSHAN LAL	B.Sc. I	दिव्या
3	GCA003	DOMENDRA KUMAR	GHASIRAM	B.Sc. I	
4	GCA004	LAKESHWARI	AWADH RAM	B.Sc. I	Lakeshwari
5	GCA005	LUKESHWAR	MADAN LAL	B.Sc. I	लुकेश्वर
6	GCA006	PALLAVI SINGH THAKUR	MOHAN SINGH THAKUR	B.Sc. I	पल्लवी सिंह ठाकुर
7	GCA007	PRATAP SINGH	MUKESH KUMAR	B.Sc. I	Pratap
8	GCA008	PREETI SAHU	CHAIT RAM	B.Sc. I	प्रीति साहू
9	GCA009	SADHANA	TEEKAM SINGH	B.Sc. I	साधना
10	GCA010	TAMESHWARI	RAKESH KUMAR	B.Sc. I	
11	GCA011	VARUN KUMAR	SANTOSH KUMAR	B.Sc. I	
12	GCA012	VASU KUMAR NIRMAL	JOTRAM NIRMAL	B.Sc. I	
13	GCA013	BHISHMENDRA	YASHWANT KUMAR	B.Sc. II	Bhishm
14	GCA014	GEETANJALI	ISHWAR LAL	B.Sc. II	गीतानजली
15	GCA015	HARISH KUMAR	CHHAGAN LAL	B.Sc. II	
16	GCA016	JHARNA	BASANT	B.Sc. II	जर्ना
17	GCA017	KANCHAN	RAJESH KUMAR	B.Sc. II	कंचन
18	GCA018	KHILESHWAR KUMAR	PURUSHOTTAM	B.Sc. II	
19	GCA019	LAKESHAWARI	BHARAT RAM	B.Sc. II	(L.V.)
20	GCA020	LAXMI NARAYAN	GENI RAM	B.Sc. II	Laxmi
21	GCA021	MANISHA	BHUSHAN LAL	B.Sc. II	मनीषा
22	GCA022	NEHA	RAVI KUMAR	B.Sc. II	नेहा
23	GCA023	NOMESHWARI	LAKSHMAN	B.Sc. II	नोमेश्वरी
24	GCA024	NUTAN KUMAR	YASHWANT KUMAR	B.Sc. II	Nutan
25	GCA025	PALLAVI	HARBAN SINGH	B.Sc. II	
26	GCA026	PANKAJ KUMAR	LOCHAN KUMAR	B.Sc. II	Pankaj Kumar

Govt. College Armarikala, Dist. - Balod (C.G.)

Attendance Sheet of Candidates for MMC Examination Year 2018-19

Exam Date : 06/01/2019

Time : 12:00 P.M. to 03:00 P.M.

Name of Exam Center : Govt. College Armarikala, Dist. - Balod (C.G.)

S.NO.	Roll No.	NAME OF STUDENT	FATHER/HUSBAND NAME	Class	Signature of Candidate
27	GCA027	PREETI SUBHA	PARMESHWAR KUMAR	B.Sc. II	
28	GCA028	SARITA	JITENDRA KUMAR	B.Sc. II	सरिता
29	GCA029	SHUBHAM	THAMESHWAR LAL	B.Sc. II	
30	GCA030	TAKESHWARI	NARAYAN SINGH	B.Sc. II	
31	GCA031	TEJ PRAKASH	UMRAO SINGH	B.Sc. II	
32	GCA032	TULESH DEWANGAN	CHETAN	B.Sc. II	तुलेश
33	GCA033	USHA	TIJU RAM	B.Sc. II	उषा साहू
34	GCA034	YOGESHWAR	SHANKAR LAL	B.Sc. II	
35	GCA035	DIGESHWARI	JAGESHWAR	B.Sc. III	Digeshwari
36	GCA036	GHANSHYAM BHARTI	ISHWAR LAL BHARTI	B.Sc. III	G. Bharti
37	GCA037	PURAN LAL	HANDU LAL	B.Sc. III	
38	GCA038	RUPENDRA KUMAR	NOHAR SINGH	B.Sc. III	Rupendra Kumar
39	GCA039	SETIKA	THAMESHWAR LAL SAHU	B.Sc. III	
40	GCA040	TOMESHWARI	MANNU RAM	B.Sc. III	Tomeshwari
41	GCA041	TOPESHWAR KUMAR	AENU KUMAR	B.Sc. III	टोपेश्वर
42	GCA042	YAMINI	TUKARAM	B.Sc. III	Yamini

No. of Present	
No. of Absent	
Total	

Sign. Of Invigilator

Principal
Madan Lal Sahu Govt. C.
Armarikala, Dist. Balod
Sign. Of Exam Superintendent



कार्यालय – प्राचार्य

शासकीय महाविद्यालय अरमरीकला, जिला – बालोद (छ.ग.)

email id : govtcollegearm@gmail.com

website: www.gc-armarikala.in



अरमरीकला, दिनांक – 28/12/2018

// प्रमाण पत्र //

दिनांक 28/12/2018 को बी.एससी. (गणित समूह) के छात्र/छात्राओं को प्रो. एच.के.साव, सहायक प्राध्यापक (गणित), शासकीय दिग्विजय स्नातकोत्तर महाविद्यालय, जिला- राजनांदगांव (छ.ग.) द्वारा गणित विषय (Real. Analysis) पर व्याख्यान प्रस्तुत किया, जो छात्र/छात्राओं के लिए बहुत उपयोगी एवं ज्ञानवर्धक रहा।


(डॉ. सपना कोर)
प्राचार्य
Govt. College Armarikala
Distt.- Balod(C.G.)

MADHAVA MATHEMATICS COMPETITION

Organized by :

Department of Mathematics, S. P. College, Pune

and

Homi Bhabha Centre for Science Education, TIFR, Mumbai

With Financial Support From :

National Board for Higher Mathematics

Certificate

$$4 \left(\sum_{k=1}^n \frac{(-1)^{k-1}}{2k-1} + (-1)^n \frac{n^2+1}{4n^3+5n} \right)$$

3.14159265358...

This is to certify that

SAHU TAPAS RANJAN RUPESHWAR SAHU

of F.Y. B.Sc.

from Madan Lal Sahu Govt. College Armarikala Balod

participated in Madhava Mathematics Competition

held on January 12, 2020.

Sapna

Madan Lal Sahu Govt. College
Armarikala, Dist. Balod (C.G.)

Centre Coordinator



(Dr. V. M. Sholapurkar)

Coordinator

MADHAVA MATHEMATICS COMPETITION

Organized by :

Department of Mathematics, S. P. College, Pune

and

Homi Bhabha Centre for Science Education, TIFR, Mumbai

With Financial Support From :

National Board for Higher Mathematics

Certificate

$$\left(\sum_{k=1}^{\infty} \frac{(-1)^{k-1}}{2k-1} + (-1)^n \frac{n^2+1}{4n^3+5n} \right)$$

3.14159265358...

This is to certify that

LAKESHAWARI

of S.Y. B.Sc.

from Govt. College Armarikala, Dist. - Balod (C.G.)

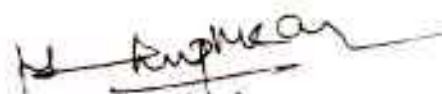
participated in Madhava Mathematics Competition

held on January 6, 2019.



Principal

Madan Lal Sahu Govt. Col.
Armarikala, Dist. Balod



(Dr. V. M. Sholapurkar)
Coordinator

Centre Coordinator

MADHAVA MATHEMATICS COMPETITION

Organized by :

Department of Mathematics, S. P. College, Pune

and

Homi Bhabha Centre for Science Education, TIFR, Mumbai

With Financial Support From :

National Board for Higher Mathematics

Certificate

$$4 \left(\sum_{k=1}^n \frac{(-1)^{k-1}}{2k-1} + (-1)^n \frac{n^2+1}{4n^3+5n} \right)$$

3.14159265358...

This is to certify that

NUTAN SAHU

of F.Y.

from Govt. College Armarikala, Dist. - Balod (C.G.)

participated in Madhava Mathematics Competition

held on February 7, 2021.

Sapna
Principal
Madan Lal Sahu Govt. Col
Armarikala, Dist. Balod (C.G.)

Centre Coordinator



V. M. Sholapurkar

(Dr. V. M. Sholapurkar)
Coordinator