



BBPSRH/Parent/2022-23/70/19 SEP 2022

Dear Parent

Bal Bharati Public School, Rohini is continuously presenting all prestigious platforms of academic excellence endorsed by CBSE board. Vidyarthi Vigyan Manthan (VVM) is an initiative of Vijnana Bharati (VIBHA), in collaboration with Vigyan Prasar, an autonomous organization under the Department of Science and Technology, Government of India and National Council of Educational Research and Training (NCERT), an institution under the Ministry of Education (earlier known as Ministry of Human Resources and Development). VVM is a national program for popularizing science among school students of standard VI to X, conceptualized to identify the bright minds with a scientific aptitude among the student community.

It is suggested that the child should be encouraged to participate in this examination and her participation could be added to her personal internal assessment grades. It will also help the student to develop scientific and maths aptitude.

A self-explanatory brochure is attached to help students to step by step registration of students. FOR MORE DETAILS, PLEASE VISIT THE LINK <https://www.vvm.org.in>


Geeta Gangwani
(Principal)



VIDYARTHI VIGYAN MANTHAN

INDIA'S LARGEST SCIENCE TALENT SEARCH FOR
NEW INDIA USING DIGITAL DEVICES







Vidyarthi Vigyan Manthan VVM

India's largest science talent search examination
for new India using digital devices

Vidyarthi Vigyan Manthan (VVM) is an initiative of Vijnana Bharati (VIBHA), in collaboration with Vigyan Prasar, an autonomous organization under the Department of Science and Technology, Government of India and National Council of Educational Research and Training (NCERT), an institution under the Ministry of Education (earlier known as Ministry of Human Resources and Development). VVM is a national program for popularizing science among school students of standard VI to XI, conceptualised to identify bright minds with a scientific aptitude from the student community.

Objectives of Vidyarthi Vigyan Manthan (VVM)

- To create interest among students in pure science
- To educate school children about India's contributions, from traditional to modern, to the world of science and technology
- To provide hands-on training to students through workshops and other events
- To provide mentors for preparing students to carry forward their education in the field of science
- To conduct competitive exams to identify students who have a scientific bent of mind
- To identify successful students at the State and National levels and felicitate them
- To organise exposure visits for the winners to various R&D institutions in the country

Structure of Vidyarthi Vigyan Manthan

Students participating in VVM shall undergo the following multi-level testing procedures:

- Objective type Multiple Choice Questions
- Comprehensive Writing
- Presentation and Group Discussion
- Role Play
- Practical examination
- Methods of Science

For the winners of VVM, the program also includes organising visits to National Science Laboratories and Centres of repute and interaction with renowned scientists of the nation. The VVM will identify Vigyan Jigyasu (विद्यार्थी विज्ञान ज्यसु) - Keen Knowledge Seeker of Science at the national-level.

Each student will be evaluated vis-à-vis his/her class peers at all the stages i.e. school, state and national level.

School-Level Examinations (Junior and Senior)

There will be only one examination for a total of one hour thirty minutes duration at school level with 100 multiple choice questions, each weighted for one mark. Examination will consist of Two Segments viz. Section-A (comprising of 40 questions from study material Indian Contributions to Science; Life story of Sir Chandrasekhara Venkata Raman & India's Freedom Struggle and Science (August 2022 issue) to be provided by Vijnana Bharati) & Section-B (comprising of 60 questions based on the Text Books of NCERT Curriculum & Logic and Reasoning

(open source)). The examination will be conducted separately for Junior Group (class VI to VIII) and for Senior Group (class IX to XI).

Evaluation of students will be based on their individual performance at each level. The examination will be conducted in English, Hindi, Tamil, Telugu, Kannada, Malayalam, Marathi, Gujarati, Punjabi, Bengali, Odia and Assamese (major regional languages).

The pattern of question paper

Content	Junior and Senior (Classes VI to XI)	
No. of Questions	100	
Marks	100*	
Structure of Questions	Multiple Choice Questions [1 Mark each]	
Segments	Section-A	40 questions from 1) Indian Contributions to Science; 2) Life story of Sir Chandrasekhara Venkata Raman & 3) India's Freedom Struggle and Science (August 2022 issue)
	Section-B	60 questions from 1) Text Books of NCERT Curriculum & 2) Logic and Reasoning (open source)
Duration (90 minutes)	Section-A	30 Minutes (40 Questions, 40 Marks)
	Section-B	60 Minutes (60 Questions, 60 Marks)
Qualifying Criterion	Answers of Section-B will be checked only if a student secures equal or more than 50% (i.e. equal to or more than 20 Marks) in Section-A.	

* Answers of Section-B will be evaluated only if a student secures equal to or more than 50% (i.e., equal to or more than 20 Marks) in Section-A. The final merit list to identify participants for State Level Camp would be prepared on the basis of total marks scored in both segments namely Section-A & Section-B. In case, if there is tie in rankings, marks obtained in Section-A will be the deciding one.

The Syllabus of Examination

Content	Contribution	Curriculum
Science and Mathematics from Text Books	50% (50 questions) [1 Mark each]	NCERT Curriculum
Indian Contribution to Science*	20% (20 questions) [1 Mark each]	VVM Study Material
Life Story of Sir Chandrasekhara Venkata Raman * & India's Freedom Struggle and Science (August 2022 issue) **	20% (20 questions) [1 Mark each]	VVM Study Material
Logic and Reasoning	10% (10 questions) [1 Mark each]	General Reading

* will be available in Digital Format from 16th August, 2022 onwards. No hard copies will be provided.

** Digital Format can be accessed 45 days prior to exam. No hard copies will be provided.

State Level Camp (SLC)

Top 20 rankers from each class for every state will be identified to participate in the one or two-day State Level Camp (SLC). The camp will be organized at any location within the state.

State Level Camp will consist of Application Orientated Multiple Choice Questions, Hands-On Activities, Observation and Analysis, Situational Problem Solving Ability and a series of other activities. States will be clubbed according to number of students who appeared for the examination, as per consideration of their geographical and cultural resemblance, and convenience of the students.

Selected students will have to bear their travel expense to attend the State Level Camp. No travel support for this purpose will be provided. The venue and other details will be informed to all selected students by the respective state coordinator(s).

National Camp (NC)

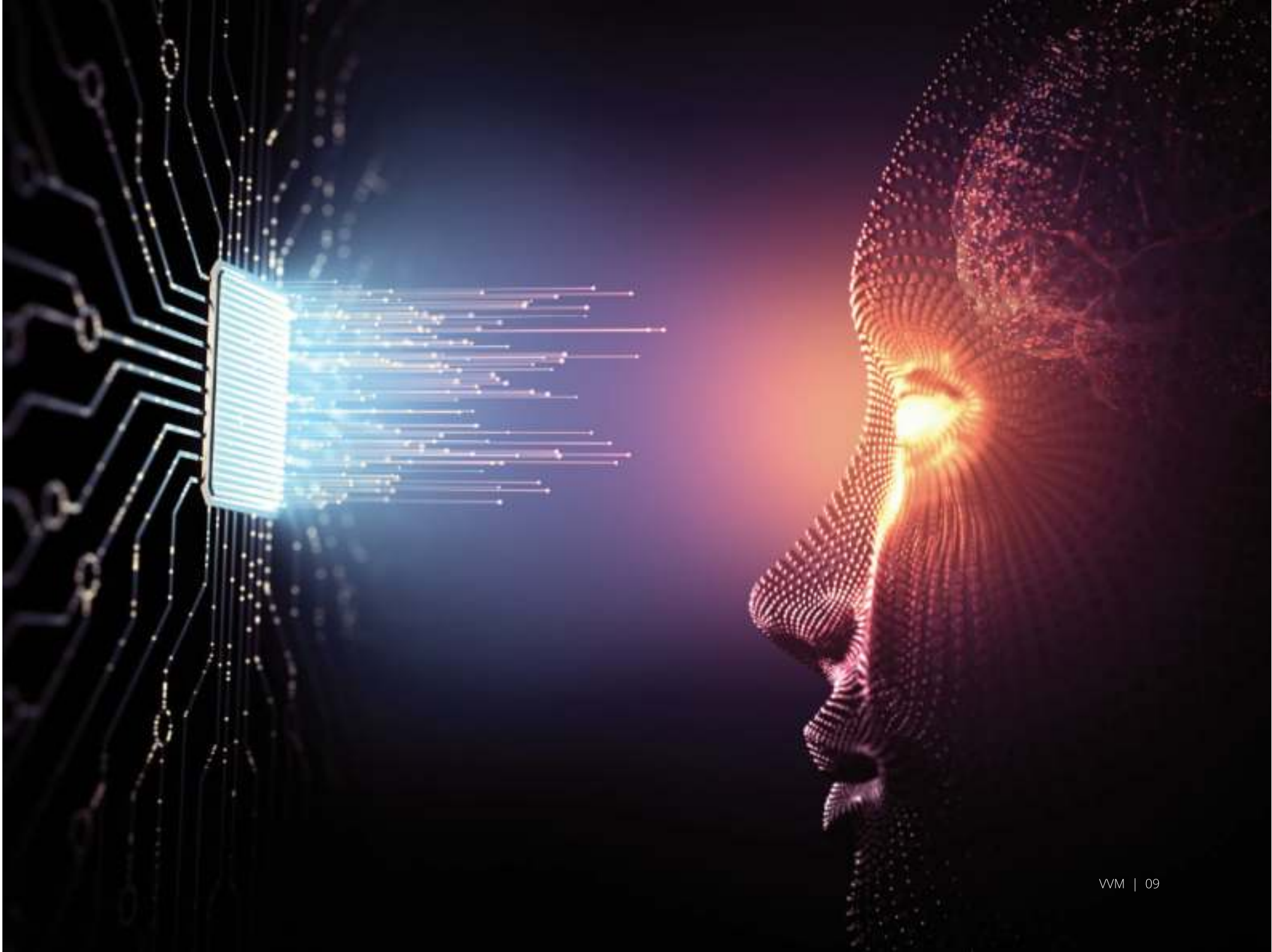
Top two students from each class i.e. total 12 students from each state will be invited to a two-day National Camp. National Camp (NC) will comprise of Presentations, Activities to test Scientific Understanding, Innovation, Creativity, Out-of-Box Thinking and Assessment of Leadership Quality.

Selected students will have to bear their travel expense to attend the National Camp. No travel support for this purpose will be provided. Organisers will make boarding and lodging arrangements. Necessary details regarding venue and others will be provided to all the students selected for participation in National Camp by the respective state coordinator(s).



Student Awards

LEVEL	NAME	SELECTION	REWARD
LEVEL – I	SCHOOL TOPPERS	Top 3 rankers per class will be SCHOOL winners (i.e. 18 students from each school). Minimum 10 students per class must be registered from a school to qualify for this category.	Merit Certificate Certificates will be generated online only. Participating students can download them
LEVEL – II	DISTRICT TOPPERS	Top 3 rankers per class will be DISTRICT winners (i.e. 18 students from each district). [All schools from that district will be part of evaluation].	Merit Certificate Certificates will be generated online only. Participating students can download them from profile account after logging into it on our website. No printed copy of the same will be provided.
LEVEL – III	STATE LEVEL WINNERS	Top 20 rankers from each class from a state will qualify to participate in the state level camp. Top 3 rankers per class will be STATE winners (i.e. 18 students per state). [Winners will be chosen from among students appearing in the state camp].	<ul style="list-style-type: none"> • State Camp Participation Certificate • State Camp Memento • Cash prize Rs. 5,000/-, Rs. 3,000/- and Rs. 2,000/- for 1st, 2nd and 3rd rankers per class
LEVEL – IV	NATIONAL LEVEL WINNERS	Top 2 winners at the state level, from each state, will qualify to participate in the National Camp. Top 3 rankers per class will be NATIONAL winners i.e. Himalayans (i.e. 18 students at national level). Top 3 Rankers per class, from a zone, will be ZONAL winners in addition to National winners (i.e. 18 students per zone).	<ul style="list-style-type: none"> • Participation Certificate • National Camp Memento • Cash prize Rs. 25,000/-, Rs. 15,000/- and Rs. 10,000/- for 1st, 2nd and 3rd rankers per class, Internship and Scholarship of 1 year • Cash prize Rs. 5,000/-, Rs. 3,000/- and Rs. 2,000/- for 1st, 2nd and 3rd rankers per class in each zone and Internship



Srijan

Vidyarthi Vigyan Manthan 2022-23 edition will provide an opportunity to participate in an Extensive Training cum Internship (1 to 3 weeks) National (Himalayans) and Zonal Winners in any one of the reputed national labs or premier research institutions like DRDO, ISRO, CSIR, BARC etc.*

* Subject to COVID19 situation

Bhaskara Scholarship

Vidyarthi Vigyan Manthan is introducing Bhaskara Scholarship of Rs. 2000/- per month to the National Winners (Himalayans) for one year. A specific project/activity will be assigned to every Himalayan at the end of SRIJAN program. The scholarship will be released quarterly on the basis of assessment by the student engagement team.

All About Registration And Examination

Vidyarthi Vigyan Manthan is a national level, unique, App based, science talent search examination that is conducted online. The registered students will be allowed to take exam from his/her own device, namely, a smart phone (mobile), laptop or desktop from his/her home. Exam will be conducted on windows and android platforms ONLY. First level examination will be conducted on 27th November, 2022 and or 30th November, 2022. Timing of the examination will be the same all over India.

(A) Individual Student Registration

- We are open for individual registration.
- The student will enter details like Name, DoB, Create Password, Class, School Name, Address, District, State etc. and then the entered data will be verified by VVM admin by sending OTP's on registered mobile number and Email Id respectively. Both the OTP's will be different and required to be entered for completion of verification process.
- Now students will be provided with an option to make the online payment after logging into the website. They can select a payment option using the payment gateway.
- After completion of registration process, the student will be provided
 - with a unique username (on registered email id) and password (encrypted format).
 - Date for the examination will be pre-selected (either 27th November or 30th November, 2022) and students will not be allowed to make any changes in the same. Student has to arrange for a device with good internet connectivity on the date and time of examination.
 - Students can give exam only once, either on 27th November, 2022 (non-working day) or on 30th November, 2022 (working day).
 - The students registered through this category will be considered for evaluation based on their school address mentioned during the registration.

(B) School/institute and student registration

We encourage bulk registration through the school/institute. To register under school/institute category, a minimum of 10 students per class have to be registered.

STEP – I: Appointment of School/Institute Exam Coordinator

The school/institute Principal/authority needs to appoint the school/institute exam coordinator and he/she will register the school/institute and the students as per STEP-II and STEP-III.

STEP – II: Registration of School/Institute

Enter the details of the school like School/Institute Name, School/Institute Address, Name of the Principal, Name of the Exam Coordinator, Mobile Number, Email Id etc. This information will be displayed as school/institute profile on the VVM website.

The entered data will be verified by VVM admin by sending OTP's on registered Mobile Number and Email Id respectively. Both the OTP's will be different and required to be entered for completion of verification process.

After completion of verification the school/institute will be provided with a Unique Referral Code, visible after logging in their dashboard which can be distributed to students registering individually.

STEP – III: Registration of Students from School/Institute

Exam coordinator can ask the students of his/her school/institute (who wish to take up the VVM online exam) to register in individual student category and complete the registration by paying a fee of Rs. 200/- (Two Hundred only). Once they are provided with login credentials, they will be able to enter the Unique Referral Code in their dashboard after logging into their account. As soon as the students will enter the Unique Referral Code in their dashboard, they will be automatically added to school dashboard.

The exam coordinator has two other options to register the students:

Online – One by one online entry of the student details.

Offline – The coordinator enters minimal details like Name of the student, Class, Gender, Email ID, Phone No. etc. in the prescribed excel format provided for this purpose. It will be an offline process, because, editable excel file (no changes in the format of file will be acceptable) is provided for data entry.

This information will be reflected on the website as student profile.

After completion of the entries the data can be uploaded online, partially or completely. If the uploading or data submission is successful he/she will be provided with an option to make the payment.

Payment option will be visible only after adding the students.

Payment can be done through online and offline modes.

Exam Coordinators depositing fee directly in VVM's account are requested to calculate the amount of fee as Rs. 170/- per student. They should also retain deposit slip with Transaction ID, Date & Time to be upload (in .jpeg format) on VVM offline payment mode option provided in their dashboard. Fee payment status will be updated after 48hrs of uploading the deposit slip/receipt.

Payment option will be visible only after adding the students.

Payment can be done through online and offline modes. Exam Coordinators depositing fee directly in VVM's account are requested to calculate the amount of fee as Rs. 170/- per student. They should also retain deposit slip with Transaction ID, Date & Time to be upload (in .jpeg format) on VVM offline payment mode option provided in their dashboard.

Fee payment status will be updated after 48hrs of uploading the deposit slip/receipt.

- After the successful submission of exam fee the exam coordinator will be provided with each student's username and password via email and these details will also be available on the school dashboard. He/she will be required to distribute the same to the respective students. The login credentials of students will not function till the fee payment status is not updated.
- After this the job of exam coordinator is complete, unless modification of a student's details is needed.

STEP – IV: Creation of Student Profile

- After first time login, students will be required to update/change their password (mandatory).
- Student can complete their profile after logging to the website. In the student profile page, the details of the student like profile photo, DoB, Father's Name, Mother's Name, Residential address etc. need to be uploaded.
- Date for the examination will be pre-selected and students will not be allowed to make any further changes in the same. Student has to arrange for a device with good internet connectivity on the pre-selected date and time of examination.
- The student must attempt exam from the device (as the App for each device varies) from which he is planning to take the exam in order to check the Exam App compatibility with his/her device.
- The details of all the students registered from that school/institute will be accessible from the school/institute login. The authority to modify a student's profile rests only with the Principal or School/Institute Exam Coordinator.

Fee Structure

- Students registering individually or through school will have to pay a fee of Rs. 200/- (Rupees Two Hundred Only).
- School/Institute coordinator is requested to retain Rs. 30/- per student as a service charge with school/institute and rest of the amount will be transferred only through Online Payment Mode to VVM Delhi office. In case of account payment, please ensure to upload the receipt & transaction id and submit the transaction details.

About devices and Internet Facility

All the students will appear for the examination using their own devices with internet connectivity from their school/home. Students will have to ensure time-to-time update of VVM Exam App. They must also ensure that they use the same device that they had used to attempt mock exams. They should make sure that the device is fully charged and App is working properly if they are using any other device.

Exam application (app) download and installation:

Once the registration process is complete, the Exam App will be made available for download from the profile page of the student. The App will be installed and will function properly only if it is downloaded according to the operating system of the desired device from student's profile page. The profile page will contain detailed instructions for App download and installation. Request support link will be available in case of any issues.

Once the App is downloaded, the user will have the option to test the same by attempting Mock Exams. Students will have to update it regularly and for this purpose he/she will have to allow push notification from this App to update notifications.

Notifications and Mock Test

To build confidence of the students and to make the exam user friendly, mock tests will be conducted regularly. The registered students will get regular notifications regarding availability of mock exams. On the specified date and time, the student can login in Exam App and take the mock test. Mock Tests will begin from 01st November, 2022.

On completion of the mock test, the students can view their result on the result page. After verification of answers student can report to admin if he/she faces any problems in the feedback section of the App.

Final Examination

Four days before the date of exam, the student will receive an SMS and Email notification to download the latest App. This download must be done at least three days prior to the exam date. After 24th November, 2022, the App will be available for download (link will be enabled) for all those appearing in the examination on 27th November and/or 30th November, 2022. The student will not be able to appear for the exam without the latest App (updated version) installed in the desired device. Either on 27th November or on 30th November, 2022, students can login in the Exam App anytime from 10:00AM to 06:00PM to write the exam with his/her selected device (mobile/tablet /laptop).

On receiving this request the App will verify the following:

- a) Student's login details – username and password.
- b) Connection speed and give warning if the speed is below threshold.
- c) Verify the Exam App ID to make sure that the student is using the latest version of the App.
- d) After successful verification students will be asked for Invigilator Key (Optional) which will be available in the Exam App itself. Once the Invigilator Key is entered the exam will start at the stipulated time.

No student will be allowed or will be able to login before 10:00AM or after

06:00PM. Students can login only once, either on 27th November or on 30th November, 2022.

- Students will have to click on Go to Exam button in Exam App screen to write the exam
- Students will see the Instructions on the first page. He/she is requested to read all the instructions carefully and then click the “I Agree” button given at the end of the same to start the exam.
- There will be two sections.

Section-A

Students will be provided 30 minutes to answer 40 questions of Section-A.

The student will be able to see only one question at a time.

He/She will be able to review the answers of section-A, until or unless the final submission of the answers for the section or before completion of the time duration i.e. 30 minutes. After that he/she will be redirected to the Section-B

Student can edit or change the answers by clicking on the review tab and question number only before the submission of the answers for this section or completion of the time duration.

Section-B.

Students will be provided 60 minutes to answer 60 questions in Section-B.

The student will be able to see one question at a time.

He/she will be able to review the answers in this section until or unless the final submission of the answers for this section or before the completion of the time duration i.e. 60 minutes. After that he/she will be redirected to the Final Submission of Answer Sheet. Student can edit or change the answers by clicking on the review tab and question number only before the submission of the answers for this section or completion of the time duration.

After that he/she will be redirected to the Final Submission of Answer Sheet.

The top/lower panel of the App will display the statistics regarding the number of questions Answered, Marked for Review, Time Left, etc.

- Students completing the exam before stipulated time can submit his/her answers by clicking on the “SUBMIT” button.

- Once the submission is over student will get a Submission notification and he/she will not be able/allowed to write the exam again.

After completion of the exam time students need to upload answer sheets via all three options namely 1) Upload Answer Sheet, 2) Upload File and 3) Send Email (auto drafted and attached, students just need to click on send email button). In case of connection failure, the answers will be saved automatically by the application to the local system in an encrypted format. The student can upload the answer sheet within the time window provided.

Questions in section-b

The student will be able to see one question at a time. He/she will be able to review the answers in this section until or unless the final submission of the

answers for this section or before the completion of the time duration i.e. 60 minutes. After that he/she will be redirected to the Final Submission of Answer Sheet. Student can edit or change the answers by clicking on the review tab and question number only before the submission of the answers for this section or completion of the time duration. After that he/she will be redirected to the Final Submission of Answer Sheet. The top/lower panel of the App will display the statistics regarding the number of questions Answered, Marked for Review, Time Left, etc. Students completing the exam before stipulated time can submit his/her answers by clicking on the “SUBMIT” button. Once the submission is over student will get a Submission notification and he/she will not be able/allowed to write the exam again. After completion of the exam time students need to upload answer sheets via all three options namely

1) Upload Answer Sheet, 2) Upload File and 3) Send Email (auto drafted and attached, students just need to click on send email button).

In case of connection failure, the answers will be saved automatically by the application to the local system in an encrypted format. The student can upload the answer sheet within the time window provided.

Registration

Registration will be available only through online mode on VVM's website <https://www.vvm.org.in>.

Eligibility	Students from class VI to XI studying under CBSE, ICSE and State Boards
Language	English, Hindi, Marathi, Tamil, Telugu, Kannada, Bengali, Gujarati, Punjabi, Odia, Malayalam, Assamese
Exam Venue	Home

Registration	Opens on 15 th July, 2022
	Closes on 30 th September 2022
Fee	Rs. 200/- (Rupees Two Hundred)
Mode of Payment	Through payment gateway and ONLINE (RTGS/NEFT) payment only. NO CASH / DD / Cheque will be acceptable. Exam Coordinators depositing fee directly in VVM's account are requested to retain deposit slip with Transaction ID, Date & Time to be upload (in .jpeg format) on VVM offline payment mode option provided in their dashboard. Fee payment status will be updated after 48hrs of uploading the deposit slip/receipt.
ONLINE Payment Details	Current Account Number: 7009607017 Account Name: VIDYARTHI VIGYAN MANTHAN IFSC code: IDIB000D008 Branch Name & Add: Indian Bank, Defence Colony, New Delhi
Website	URL https://www.vvm.org.in

Important dates to remember

Upload of VVM Study Material	16 th August, 2022
Mock Tests	01 st November, 2022 onwards
Date of Examination (Login any day)	Sunday, 27 th November, 2022 or Wednesday, 30 th November, 2022
Time of Examination	10:00 AM to 06:00 PM (90 minutes) Students will be able to login only once.
Declaration of Result	20 th December, 2022
One or Two-day State Camp	8 th , 15 th & 22 nd January, 2023 (any one day)
Two-day National Camp	20 th & 21 st May, 2023

* Above schedule may change according to the situation of the pandemic and/or as per the directives of Government of India.

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Students science activities for VVM 2022-23

Eat food as medicine else medicine will become Food!

We are what we eat is not an exaggerated statement. A healthy diet is the most effective tool to fight diseases. However, our modern lifestyle has altered our food habits. Incidentally, our choices of food and lifestyle are closely related to our physical and mental health, and thus our overall wellness.

Food habits have been recorded to be, mentioned to be, and observed to be, declined in terms of healthy food in the past couple of generations. If it is allowed to continue, the degradation will be even more and more bad including the increased percentage of dietary risk. Understanding the nature of and the magnitude of the degradation needs nationwide data collection and analyzing the data using artificial intelligence. If successful the outcome would be able to identify points of interventions to reverse the degradation, which means reverse decline for good health. With this in mind, VVM 2022-23 is coming up with a unique opportunity for registered participants this year.

The nationwide MEGA Science Experiment, a novel endeavour of VVM, is an experiment based on the food habits of students, the nutritional value of the food they partake in, as well as its

environmental impact. The objectives of this MEGA Science experiment are inculcating observational skills, a scientific mindset, and analytical thinking among our students.

Gathering information on the regular food habits of children and comparing similar food habits of their parents and grandparents when they were of the same age can provide information on the secret of food on health, specifically non-communicable diseases. Analysis of this data can forecast the trend and magnitude of impact on the next two generations. In doing so we might also understand ways to intervene using food itself. If successful, the study will pave way for a long life with good health and happiness.

The details of the stages, which will cover many aspects, will be shared with the VVM participants in the due course of time. The findings of the nationwide MEGA Science Experiment will be published on the VVM website to let students know where they stand vis-à-vis the larger picture. The complete outcome of the MEGA Science Experiment with its objectives, findings and impact on the national scenario will be shared

during the National Camp of Vidyarthi Vigyan Manthan 2022-23. The results will also be shared with concerned institutions, government agencies, and policy-makers.

The whole experiment is conceptualized in such a way that the participating students will make several observations, analyze their food habits and lifestyles, and carry out some preliminary measurements and calculations. Additionally, one of the main objectives of the nationwide MEGA Science experiment is to spread awareness about fast-changing food habits.

We strongly believe that students will be able to situate themselves within the national framework and suggest measures and means of making the necessary course correction. We look ahead to conducting this experiment successfully with the cooperation of all stakeholders.

About organisers



VIJNANA BHARATI

Vijnana Bharati (VIBHA) is a national movement for the propagation and popularization of Science and Technology among students and masses. VIBHA promotes scientific contributions made by India from ancient to present time. At present we are the largest scientific organization with the longest chain of state units and networking institutions across the country.



VIGYAN PRASAR

Vigyan Prasar (VP) is a national institute for science and technology communication established in 1989 under the Department of Science and Technology, Government of India. It promotes and propagates a scientific and rational outlook in society, nurtures interest in science, encourages creativity and develops capacity for informed decision making.



NATIONAL COUNCIL OF EDUCATIONAL RESEARCH & TRAINING

National Council of Educational Research & Training (NCERT) is an organisation set up by the Government of India in the year 1961 to assist and advise the central and state governments on academic matters related to school education. The major objectives of NCERT and its constituent units are to: undertake, promote and coordinate research in areas related to school education; prepare and publish model textbooks, supplementary material, newsletters, journals and develop educational kits, multimedia digital materials, etc.



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VIDYARTHI VIGYAN MANTHAN

Vidyarthi Vigyan Manthan (VVM) is initiated by Vijnana Bharati (VIBHA) in collaboration with Vigyan Prasara, an autonomous organisation under the Department of Science and Technology, Government of India and National Council of Educational Research and Training (NCERT) an institution under the Ministry of Education (earlier known as Ministry of Human Resource Development), Government of India.



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