

HOW TO PREPARE FOR KVPY?



PREFACE

KVPY, India's most reputed scholarship program, receives up to 1 lac applications annually from students all over the country. Winning the esteemed scholarship is a matter of honour; KVPY Fellows bear the fruits of their accomplishment not only during the student life but even during their professional life.

This book is a quintessential guide to crack KVPY 2018-2019. Besides the fool proof preparation strategy by experts and previous year toppers, candidates will also find all the important exam related information critical to the aptitude test and personal interview in the upcoming sections.



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ABOUT KVPY

2018-19

Kishore Vaigyanik Protsahan Yojana (KVPY) is a national level scholarship program conducted annually to support and encourage enthusiastic students to pursue research career in basic sciences. The KVPY qualifiers, known as the KVPY Fellows, receive monthly scholarship up to Pre-Ph.D. level.

The KVPY examination is conducted separately for class 11, 12 and B.Sc./B.S./ B.Stat./B.Maths/Int. M.Sc./M.S First Year and they are known as SA, SX and SB respectively.

The information about KVPY appears on every national daily on the Technology Day, that is, May 11 and the first round (aptitude test) is usually conducted in the month of November.

KVPY PREPARATION
TIPS 2018-19



With the last few months remaining for the upcoming KVPY exam, follow these expert tips which will help you with your preparation.

Align JEE/AIPMT Preparation with KVPY

If you are a JEE or AIPMT aspirant, the good news is that KVPY syllabus is the same. You can simultaneously prepare for your college entrance as well as KVPY exam. Refer to the study material of your JEE coaching center. Questions in KVPY are of JEE Advanced level. Hence, focus on fundamentals and core concepts; you will need to apply them in questions. In fact, preparing for KVPY will speed up your preparation for competitive exams too.

Start Early

If you are preparing for KVPY, your paper is conducted in November. The complete syllabus for the class is not covered in schools and coaching institutes by then. As a result, the students who put in extra effort to cover these portions for their KVPY preparation, perform better than others. Hence, start early. Even if you are not able to complete the entire syllabus, focus on the most commonly asked concepts and chapters and prepare them well before time.

Start tracking your KVPY preparation now and create your own personalized plan to success

[Launch KVPY Prep Tracker](#)

Subject-wise Preparation Plan

Strong problem-solving skills and concept clarity are needed to crack KVPY. It is imperative that you concentrate on each subject and prepare a time table around it.

- **Physics:** This section is usually tough in KVPY. Lots of questions are asked from Optics and Resistor Series. Even in SA, few questions are asked from class 12 syllabus such as Lens Maker's Formula and Kirchhoff's rules. If physics is your strong point, you will have an advantage over others.
- **Chemistry:** It is easier when compared to physics. Amongst PCM, this section will take the least amount of your time. For SA, revise simple reactions from class 10 too. Most of the questions are reaction or property based, very few questions will be numerical based. You're expected to have a thorough knowledge of chemical bonding, organic and physical chemistry.
- **Mathematics:** KVPY math is of moderate to tough difficulty level. You must prepare very well for it. Build upon your basics of class 10 for SA. For SX, you need a complete preparation of class 11 and 12 portions. Substitution and trial and error methods also works for this subject but might take up a lot of your time.
- **Biology:** Bio is considered the easiest section in KVPY. It is highly scoring. If you are a PCM student, you will not be able to find time for class 11 or 12 biology. But the good news is that if you go through class 9 and 10 biology, you will clear this section.

Solve KVPY Previous Year Papers

To get a fair idea of the kind of questions you can expect in your exam, it is always advisable to solve lots of previous year papers. They give you an insight into the actual KVPY exam and help you analyse its difficulty level. Time yourself sincerely and start solving at least one paper a week.

Maintain a Notebook for Important Formulas

Make notes during preparation phase. Maintain a notebook for all the important formulas, theorems, proofs and equations while studying. Keep revising from it every day. This will be particularly helpful during revision. You will have all the important material in one place and you won't have to hunt for anything at the last moment in those 20 kgs of books.

Get free KVPY previous year papers along with solutions by KVPY experts

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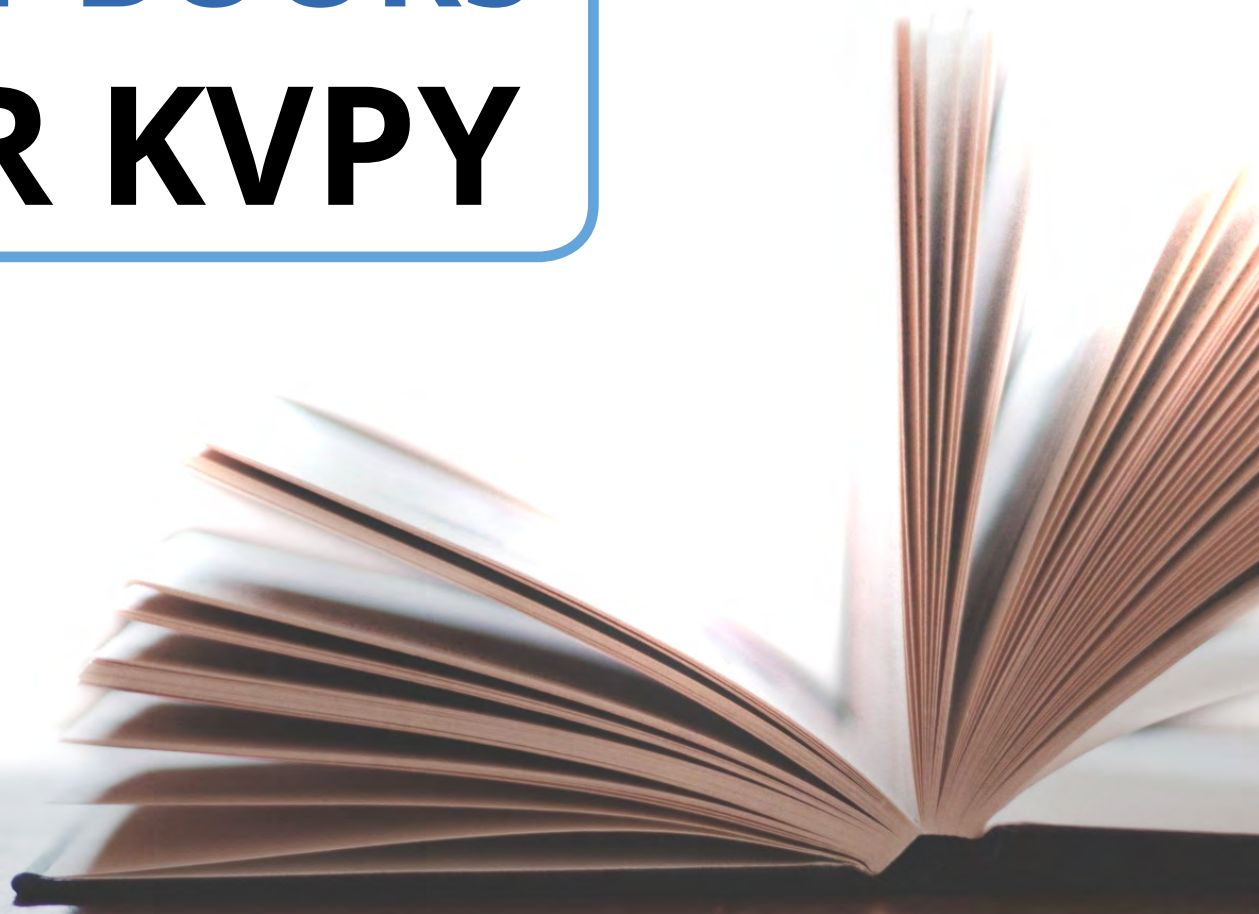
Solve Online KVPY Mock Papers

KVPY is conducted in online mode. Hence, it is important that you have sufficient online practice before the actual exam. When students are not acquainted with computer based tests (CBT), it often happens that they mess up the final exam due to nervousness or even mark incorrect responses (KVPY has negative marking for incorrect answers). It is very important to take mock tests in real test environment to get the real feel of the exam and ensure that there are no surprises on the exam day.

Preparing for KVPY Interview

It is hard to predict the kind of questions that are asked in KVPY interviews. The best way to prepare for it is to increase your general scientific knowledge – watch online lectures and videos, attend science fairs and camps. Read previous qualifiers' interview experiences and blogs. This is as close as you can get for the KVPY interview preparation.

**BEST BOOKS
FOR KVPY**



NCERT is by far the best book for KVPY preparation. Read it in and out - NCERT for physics, chemistry and mathematics (or biology) should be your bible in the next few months. However, once you are done with NCERT and built a good concept foundation, you may refer to some other books to gain an edge over your competitors.

Here is a list of reference books which are considered as the best books for KVPY preparation.

Mathematics Books for KVPY

- Mathematics for Class 11 by RD Sharma
- Mathematics for Class 12 by RD Sharma

Biology Books for KVPY

- Elementary Biology Volume 1
by KN Bhatia and MP Tyagi
- AIPMT Guide by MTG

Chemistry Books for KVPY

- Moderns ABC of Chemistry Class-XI with CD
- NCERT Physical & Organic Chemistry by
OP Tandon

Physics Books for KVPY

- Concepts of Physics by HC Verma
- Understanding Physics by DC Pandey
- Fundamentals of Physics by Halliday,
Resnick, Walker

A hand holding a blue pen is positioned over a spiral notebook. The background is a soft, out-of-focus brown. A white-bordered box with rounded corners is overlaid on the right side of the image, containing the text 'BENEFITS OF KVPY FELLOWSHIP'.

**BENEFITS OF KVPY
FELLOWSHIP**

KVPY Fellowship definitely pays for all the hard work you put in. Once you qualify it, you will reap the benefits of your badge throughout high school and college, during campus interviews, future jobs and even for higher studies abroad. It helps in resume building when you are a student and gets you an edge over your competitors in professional life while applying for internships and jobs.

KVPY Fellowship Benefits

- Direct admission into institutes like IISc and IIT-Hyderabad
- Monthly scholarship and contingency grants in your basic science and specialisation courses
- An opportunity to do a research project every year under the guidance of a scientist
- Participate in the Vidyotsav Camp which is held for KVPY Fellows where they get a chance to meet and interact with like-minded and motivated people pursuing research careers in science
- Exclusive access to all the national libraries and science camps in the country



Interview Insights
by KVPY AIR 42



Gautam Prem Jain

KVPY Year: 2011 AIR: 42

Aptitude Round

- KVPY tests fundamentals of math and science. While studying, make sure you understand all concepts very well and apply them in questions.
- I had appeared for KVPY in class 12. Syllabus was not completed in school and tuition. So, I looked up the most important topics for KVPY and studied them myself.
- In the KVPY paper, 20% of questions will be easy, about 60% will be of moderate difficulty level and the remaining 20% will be hard. I would advise you to target the easy and moderate ones. If you prepare the basics of class 9 and 10, you will be able to solve many of these questions. If you have prepared class 11 syllabus completely and most of class 12 syllabus, you will get most of the questions right.
- I was an engineering student. My subjects were PCM and not bio. I was preparing for JEE at the same time. So, it was not possible for me to study class 11 and 12 bio. I prepared for it by studying class 9 and 10 books. And it turned out that my preparation was enough to answer bio questions.
- I solved many previous year papers before KVPY exam. It gave me an idea of what type of questions are asked in the exam, and simplified my preparation.

Interview Round

- I was interviewed by a panel of 6 members which consisted of highly qualified researchers and scientists. The interview was about general application of science, which went on for about 45 minutes to an hour. They had a couple of objects with them – mirror, magnet, prism, etc. They asked several questions around practical demonstration of theories using these objects.
- In KVPY interview, they want to know how curious you are and your knowledge of the science behind everyday objects.
- I prepared for this round by giving mock interviews. KVPY's is usually the first interview of your life. You need a lot of confidence for it. I repeatedly requested my teachers to ask me questions and take my mock interview. This helped me overcome my nervousness and I was very calm in the actual interview.
- One important D-day tip is that you must convince the interviewers that you want to pursue a career in research field. If they get an impression that you are targeting IIT or medical, they may reject you. Be prepared to tell them the branch of science you are interested in, the institute where you want to study B.Sc. and the reason you selected the institute. Again, be ready to answer any counter questions that may be shot at you regarding your career.
- Before the interview, they give you a self-appraisal form. Fill out this form very carefully. Write only about things which you are good at – your strong points. A lot of questions will be asked from this form. Be prepared with these and answer confidently.
- Wear your school uniform to the interview. It will give a brilliant first impression to the interviewers.



Expert Recommendations

Resolve your doubts instantly; anytime, anywhere

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All you need to know about the KVPY exam

[KVPY Exam](#)

Toppers' KVPY preparation mantra

[Toppers' Speak](#)

Practice previous year KVPY papers

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