

Scheme to Identify and Capture Scientific Temperament among Students through Knowledge and Awareness Mapping Platform (KAMP) (20-21)

INTRODUCTION

Council of Scientific and Industrial Research National Institute of Science, Technology and Development Studies (CSIR-NISTADS) is one of the constituent laboratories of CSIR, Department of Scientific & Industrial Research, Government of India - National Institute of science, Technology and Development Studies (NISTADS), has launched knowledge and Awareness Mapping platform-National Assessment of Scientific Temperament & Aptitude (KAMP-NASTA) in knowledge alliance with an industrial partner M/s Nysa Communications Pvt. Ltd. with an attempt to harness the creative and innovative talents of school children.

Knowledge and Awareness Mapping Platform is an International intellect E-based assessment platform to evaluate cognizance of 21st century skills, awareness and knowledge of Science, Technology & Humanities among students.

OBJECTIVES

1. To help students identify their awareness and aptitude for Science, Technology and Humanities.
2. To create awareness among students in emerging technologies like Robotics, Internet of Things (IOT), Artificial Intelligence (AI) etc.
3. To infuse a healthy competitive spirit through rewards, based on performance levels.
4. Track student progress through a dynamic system.
5. To create a performance index for all the participating schools/institutions.

In view of growing pace and complexity of knowledge system in the present times, it has been realized that there is a critical need to quantitatively assess the awareness and knowledge of students on various subjects regularly and objectively. Thus, KAMP has been initiated to identify and promote gifted and talented students of class 5th to 12th and other pre-graduation students in the field of Science, Technology and Humanities across India. Based on the algorithm and design developed by CSIR-NISTADS, KAMP would support in identifying the talent at primitive stage and nurturing them in their areas of strength. The outcome of the KAMP will provide a comprehensive assessment report not only to the young students but also to schools/institutions, teachers and parents.

1. COMPONENTS & FINANCIAL PATTERN

KAMP-NASTA (2020-2021) comprises of following components/variants:

a. **NASTA-NOVA:** 1 paper for all the classes

| CLASS | SECTION | NO. OF QUESTIONS | TOTAL MARKS |
|-------------------------------------|--------------------|------------------|-------------|
| 5th to 10th (90 minutes) | Science | 20 | 20 |
| | Mathematics | 20 | 20 |
| | IT/Computers | 10 | 10 |
| | EVS/Humanities | 15 | 15 |
| | Aptitude/Reasoning | 15 | 15 |
| | Grand Total | 80 | 80 |

| CLASS | SECTION | NO. OF QUESTIONS | TOTAL MARKS |
|--------------------------------------|---------------------------------|------------------|-------------|
| 11th to 12th (90 minutes) | Aptitude & Career Advisory Test | 80 | 80 |

- **Paper Language:** English, Hindi or other Regional Languages
- **Eligibility:** All students of State Board Schools/institutions
- **Registration Fee:**
 - Self-Financed Schools/institutions: Rs. 300/- per student
 - Govt./Govt. Aided Schools/institutions: Rs. 200/- per student

b. NASTA-RIGEL:

Standard 5th to 10th: It is a 2 paper assessment

PAPER 1:

| CLASS | SECTION | NO. OF QUESTIONS | TOTAL MARKS |
|----------------------------|--------------------|------------------|-------------|
| 5th to 8th (90 minutes) | Science | 30 | 30 |
| | Mathematics | 30 | 30 |
| | Grand Total | 60 | 60 |

| CLASS | SECTION | NO. OF QUESTIONS | TOTAL MARKS |
|-----------------------------|--------------------|------------------|-------------|
| 9th to 10th (90 minutes) | Science | 40 | 40 |
| | Mathematics | 40 | 40 |
| | Grand Total | 80 | 80 |

PAPER 2:

| CLASS | SECTION | NO. OF QUESTIONS | TOTAL MARKS |
|-----------------------------|--------------------|------------------|-------------|
| 5th to 10th (90 minutes) | IT/Computers | 20 | 20 |
| | EVS/Humanities | 20 | 20 |
| | Aptitude/Reasoning | 20 | 20 |
| | Grand Total | 60 | 60 |

- **Paper Language:** English, Hindi or other Regional Languages
- **Eligibility:** All students of CBSE/ICSE Board Schools/institutions
- **Registration Fee:**
 - Self-Financed Schools/institutions: Rs. 400/- per student
 - Govt./Govt. Aided Schools/institutions: Rs. 300/- per student

Standard 11th, 12th and Other Pre-graduation Students

| CLASS | SECTION | NO. OF QUESTIONS | TOTAL MARKS |
|------------------------------|------------------------------------|------------------|-------------|
| 11th to 12th (90 minutes) | Aptitude & Career Advisory Test | 80 | 80 |

- **Paper Language:** English, Hindi or other Regional Languages
- **Eligibility:** All students of CBSE/ICSE Board Schools/institutions/Pre graduation students of ITI/Polytechnic and other education institutions
- **Registration Fee:**
 - Self-Financed Schools/institutions: Rs. 400/- per student
 - Govt./Govt. Aided Schools/institutions and Pre graduation students of ITI/Polytechnic and other central/state govt. education institutions: Rs. 300/- per student

c. NASTA-UNICORN

PAPER 1:

| CLASS | SECTION | NO. OF QUESTIONS | TOTAL MARKS |
|-----------------------------|--------------------|------------------|-------------|
| 5th to 10th (90 minutes) | Science | 60 | 60 |
| | Grand Total | 60 | 60 |

PAPER 2:

| CLASS | SECTION | NO. OF QUESTIONS | TOTAL MARKS |
|-----------------------------|--------------------|------------------|-------------|
| 5th to 10th (90 minutes) | EVS/Humanities | 60 | 60 |
| | Grand Total | 60 | 60 |

PAPER 3:

| CLASS | SECTION | NO. OF QUESTIONS | TOTAL MARKS |
|-----------------------------|--------------------|------------------|-------------|
| 5th to 10th (90 minutes) | Mathematics | 60 | 60 |
| | Grand Total | 60 | 60 |

PAPER 4:

| CLASS | SECTION | NO. OF QUESTIONS | TOTAL MARKS |
|-----------------------------|--------------------|------------------|-------------|
| 5th to 10th (90 minutes) | IT/Computers | 40 | 40 |
| | Aptitude/Reasoning | 20 | 20 |
| | Grand Total | 60 | 60 |

11th to 12th:

| CLASS | SECTION | NO. OF QUESTIONS | TOTAL MARKS |
|-------------------------------|------------------------------------|------------------|-------------|
| 11th to 12th (120 minutes) | Aptitude & Career Advisory Test | 120 | 120 |

- **Paper Language:** English, Hindi or other Regional Languages
- **Eligibility:** Other International Boards
- **Registration Fee:**
 - Self-Financed Schools/institutions: Rs. 600/- per student
 - Govt./Govt. Aided Schools/institutions: Rs. 500/- per student

2. PATTERN OF FUNDING AND OTHER CONDITIONS:

Self-Financed/Private Schools/institutions:

Participation fee for Self-Financed Schools/institutions shall be borne by students and shall be deposited by the school or student. After deducting Rs. 30/- per student (towards expenditure for conducting examination in their school premises), school has to pay total registration fee (through online (Net Banking or Card Payments) or by generating payment deposit slip through school panel to pay through bank Transfer (RTGS/NEFT).

Government/Govt. Aided Schools/institutions:

Participation fee for Govt./Govt. aided schools/institutions and Education Institutions under MHRD/Central Govt./State Govt./Minorities Institutions etc. shall be borne and paid by respective Education Board/Department/school.

Concern Education boards/departments/institutions may create facility to enrol students jointly or direct the Principals/Head of schools/institutions/Institutions under your jurisdiction, to upload enrolled students data online for the above said assessment through KAMP website <http://kamp.nistads.res.in>

3. IMPLEMENTATION GUIDELINES

The implementation of KAMP will be held in schools/institutions in following manner:

SCHOOL ENROLLMENT

List of participating schools/institutions and students will be shared with KAMP Operations & Coordination Office. The details will be uploaded by KAMP on portal <http://kamp.nistads.res.in>

KAMP – NODAL OFFICER

KAMP-NODAL OFFICER (School Principal is Preferable) details will be shared while sending the list of participating schools/institutions and students with KAMP officials. KAMP Nodal Officer will be the Single Point of Contact (SPOC) for coordination with KAMP Officials and implementation of KAMP in the School.

STUDENT REGISTRATION

Students will be registered by KAMP officials at the time of school registration. The student login credentials will be shared on their registered email id.

REGISTRATION FEE

As per selected assessment variant (as described in pt. 1), consolidated fee of nominated students shall be paid by the concerned Education Board/Department/School/Student through KAMP Portal <http://kamp.nistads.res.in>

ASSESSMENT/IMPLEMENTATION DETAILS

Preparation tips for students, Syllabus for NASTA, Sample Questions, Exam Conduction Guidelines, Assessment Pattern details can be accessed through <http://kamp.nistads.res.in>. Examination material will be delivered directly to school closer to the date of examination.

ASSESSMENT REPORT

Assessment Report will be posted to schools/institutions and also available online. All participants will receive a comprehensive assessment report with an advisory report. School Assessment Report will be available with the comparative analysis with schools/institutions in their region and at other States.

AWARDS, VISITS & CERTIFICATES

Post Assessment, National level, State Level and District Level Awards will be announced. Also selected students will get an opportunity to visit National/International, Science and Technology Institutions. The Awards will be given by Eminent luminaries of the Nation. Details of awards are available on KAMP Portal.

KAMP – JUNIOR SCIENTIST CLUB (K-JSC)

Kamp- Junior Scientist Clubs will be formed in each district. Each participating school and student will become members of KAMP-JSC.