

# National Achievement Survey Class X

Cycle 2 : 2017-18



## Guideline Manual

*for*

### Field Investigators



विद्यया ऽ मृतमश्नुते



एन सी ई आर टी  
NCERT

**NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING**

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सत्यमेव जयते

Government of India  
MHRD

The National Achievement Survey (NAS) are representative sample of schools from all districts in India aimed at understanding the health of the education system in government, government-aided and private schools. Findings from the NAS are used as inputs in policy, planning and pedagogical interventions to improve student learning outcomes.

*Assessment of  
Class X  
on **February 5, 2018**  
nation wide*

***For the  
first time***

***Pedagogical  
interventions  
at district level***

***Auto-generation of  
report***

## Acronyms

<b>ADC</b> : Assistant District Coordinator	<b>NCERT</b> : National Council of Educational Research and Training
<b>CWSN</b> : Children with Special Needs	<b>OMR</b> : Optical Mark Recognition
<b>DC</b> : District Coordinator	<b>OthD</b> : Other Disabilities
<b>DEO</b> : District Education Officer	<b>PMU</b> : Project Management Unit
<b>DIET</b> : District Institute of Education and Training	<b>PQ</b> : Pupil Questionnaire
<b>DRC</b> : District Report Card	<b>RS</b> : Random Start
<b>DMU</b> : District Monitoring Unit	<b>RMSA</b> : Rashtriya Madhyamik Shiksha Abhiyan
<b>DPC</b> : District Project Coordinator	<b>SCERT</b> : State Council of Educational Research and Training
<b>ESD</b> : Educational Survey Division	<b>SI</b> : Sample Interval
<b>FI</b> : Field Investigator	<b>SIE</b> : State Institute of Education
<b>FN</b> : Field Notes	<b>SLMT</b> : State Level Master Trainer
<b>HI</b> : Hearing Impairment	<b>SPD</b> : State Project Director
<b>IC</b> : Institutional Coordinator	<b>SQ</b> : School Questionnaire
<b>ID</b> : Intellectual Disability	<b>S&amp;LD</b> : Speech & Language Disability
<b>LD</b> : Locomotor Disability	<b>TQ</b> : Teacher Questionnaire
<b>MIL</b> : Modern Indian Language	<b>UDISE</b> : Unified District Information System for Education
<b>MIS</b> : Management Information System	<b>UT</b> : Union Territories
<b>NAS</b> : National Achievement Survey	<b>VI</b> : Visual Impairment

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## Contents

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<b>1. Introduction</b>	<b>5</b>
<b>2. Role and Responsibilities of Field Investigators:</b>	
▪ <b>School Level</b>	<b>6</b>
– Pre-survey Activities	6
– Activities DURING survey	6
– Quantity of Survey Material for One Medium One School	6
– How to perform selection of section if there are multiple mediums	7
– How to perform selection of students if there are multiple mediums	7
– What to take care with Children With Special Needs (CWSN)	8
– Schedule for Administration of Tests in the Sampled School	8
– Filling of various codes	9
– Sitting Plan and Distribution of Test Forms to Sampled Students	10
– Classroom Activities of Field Investigator (FI)	11
– How to Use OMR Sheet	11
– Packing of Used and Unused Survey Material	12
<b>3. Annexures–</b>	
<b>I. Field Notes</b>	<b>18</b>
<b>II. Medium Codes</b>	<b>20</b>
<b>III. Sample Design for OMR Sheets</b>	<b>21</b>

## Introduction:

The *Rashtriya Madhyamik Shiksha Abhiyan* (RMSA) is a programme to carry further the SSA programme so that the students after secondary have higher level of knowledge and skills. Therefore, it is desirable that assessment of learning levels of children at secondary stage must be carried out periodically. There are about 30 National and State Education Boards conducting Public examination at Class X in a very routine manner with emphasis on pass-fail dichotomy. A national level assessment of learning levels across states' boards will be very useful study for introspection and enhancing educational standards.

## National Achievement Survey (NAS) Class X (Cycle-2)

In this direction, NCERT has completed the first cycle of National Achievement Survey (NAS) Class X in the year 2015. The findings of the Survey have been shared at various forums with the concerned boards/States/UTs functionaries. To observe the improvement in the learning of the students, the MHRD has decided to conduct the second cycle of the Survey.

The Educational Survey Division of NCERT has initiated the NAS Class X (Cycle 2) in the year 2017. In previous cycle of NAS Class X, the reporting unit was State however, in Cycle 2 the reporting unit is District.

### The main objectives of National Achievement Survey Class X (Cycle-2) are:

- To study the achievement levels of students of Class X from government, government-aided and private schools in the subjects–English, Mathematics, Science, Social Science and Modern Indian Language (MIL).
- To study the difference in achievement levels with regards to area, gender, social group, board and management of schools.
- To study the effect of intervening variables like students' home background, school and teacher on achievement levels of students.
- To compare the performance of students in all subject from Cycle-1 to Cycle-2.

### The scope of the NAS Class X (Cycle 2) is:

- It includes all the districts of 36 States and Union Territories in the country.
- Random sample will be taken from all the schools in the country having secondary classes (Class X) and recognized by State Education Boards or National Boards of Education [Central Board of Secondary Education (CBSE) and The Indian Certificate of Secondary Education (ICSE)] in this study.
- Assessment of achievement levels of Class X students has to be done within these five main curricular/subjects areas namely; English, Mathematics, Science, Social Science and one Modern Indian Language (MIL).
- A sample of **80 schools per district** from each State/Board and maximum **45 students from each sampled school** have to be included in main survey.

## SCHOOL LEVEL

### ROLE AND RESPONSIBILITIES OF FIELD INVESTIGATOR (FI)

#### PRE-survey Activities

- i. Attend training programme organized by the District Coordinator.
- ii. Collect one **Guideline Manual for Field Investigators** for a team of two FIs from District Coordinator,
- iii. Collect Letter of Introduction from DC for visiting sampled school.
- iv. Get UDISE code, medium code, contact details and address of sampled school to be visited.

#### Activities DURING survey

- i. Reach the assigned sample school as per the instructions provided during the training and the schedule received from District Coordinator along with the Letter of Introduction, Guideline Manual for Field Investigators, UDISE code of assigned school, medium code in which tests to be administered in the sampled school and contact details of sampled school, also collect contact numbers of DC and ADC.
- ii. Meet the Head of the school and show him/her Letter of Introduction, and explain the purpose of the visit. Request for assistance and cooperation in completion of survey activities, however ensure that the staff from the schools is not to be involved in implementing the survey.
- iii. Ensure that the achievement test package is sealed and seal is not broken. Open the package on the day of test administration. If the seal is broken, report immediately to District Coordinator and mention in the Field Notes as well. However, continue to administer the tools.
- iv. Get ready with Survey material received from Head of the School on the day of test administration.

Quantity of Survey Material for one Medium One School					
1.	English	Test Form-11	Test Form-12	Test Form-13	
		3	3	3	
2.	Mathematics	Test Form-21	Test Form-22	Test Form-23	
		3	3	3	
3.	Science	Test Form-31	Test Form-32	Test Form-33	
		3	3	3	
4.	Social Science	Test Form-41	Test Form-42	Test Form-43	
		3	3	3	
5.	MIL	Test Form-51	Test Form-52	Test Form-53	
		3	3	3	
6.	Questionnaires	PQ	TQ	SQ	
		45	5	1	
7.	OMR	Test	PQ	TQ	SQ
		45	45	5	1
8.	Other	Guideline Manual for Field Investigators	Field Notes		
		1	1		

**Note:** EXTRA copies: Test OMR–5; PQ-OMR–5.

- v. **Start Survey activities in the sampled school by filling all the entries in the Field Notes from Class X (all sections) register(s), if required, get help from Class teacher(s).**
- vi. If there are more than one sections in Class X, then select a section through random sampling as explained in Field Notes.

**How to Perform Selection of Section if there are MULTIPLE MEDIUMS in Class X**

- Before proceeding to section selection process, consider only those sections for section sampling, in which tools to be administered (as per medium code received from DC/ADC) and exclude other medium section(s), if any.

- vii. **Selection of Section (If required) :** If there are more than one section in the selected school in Class X, then select only one section through random sampling as explained in the **Field Notes**.
- viii. **Combining of sections for test administration is not permissible.**
- ix. If there are more than 45 students in the selected section / Class X, then select 45 students through random sampling as explained in Field Notes.

**How to Perform Selection of Students, if there are MULTIPLE MEDIUMS Students in a single section Class X**

- Before proceeding to students' selection process, consider only that medium students for student sampling, in which tools to be administered (as per medium code received from DC/ADC) and exclude other medium student(s), if any.

- x. **Selection of Students (If required) :** List all the students (*List ABSENT student(s) also even if she/he is not present on the day of test administration*) of a selected section/Class X in **SHEET-I** of **Field Notes** with all required entries in the columns– Name of Students, Gender, Category, Children With Special Needs (CWSN) (Codes for Gender, Category and CWSN are provided above the table of Sheet-I).
- xi. Select 45 students using the sampling procedure specified in the **Field Notes** for selection of the students. In the column of '**Allot Student ID**' in **Sheet-I** of **Field Notes** allot ID serially to each selected student one by one.
- xii. After allotting student IDs to each selected student in **SHEET-I**, transfer all the 45 selected students (including absent student, if any) as per their allotted ID serially in **SHEET-II** of **Field Notes**.
- xiii. Fill the required entries against each student, i.e., Attendance (Mark only Absent student(s) as 'A'), Gender, Category, Children With Special Needs (CWSN) and respective Test Form Number in which the student is to be appeared (**As per 'Sitting and Distribution of Test Forms Plan', explained in this Manual**).

### What to take care with Children With Special Needs (CWSN)

School to facilitate children with disabilities in following manner:

- 1) 30 minutes extra time will be given to complete the test.
- 2) Facility of scribe or amanuensis will be given to the students.
- 3) Resource teacher should be consulted for conducting the test.
- 4) Ensure that suitable adaptations are made according to the child's needs.

**Types of disabilities:**

1. **None** - No disability
2. **LD** - Locomotor Disability
3. **VI** - Visual Impairment
4. **HI** - Hearing Impairment
5. **S&LD** - Speech & Language Disability
6. **ID** - Intellectual Disability
7. **OthD** - Other Disability

- xiv. All the relevant codes (Student ID, CWSN, Gender, Category and Test Form Number) filled-in **SHEET-II** of **Field Notes** against each selected student should be transferred as it is on Test-OMR sheet.
- xv. **Ensure that same Test Form should be distributed to selected students as allotted in Test Form Number column of SHEET-II of Field Notes against each selected student.**
- xvi. **Ensure to use same Student ID on TEST-OMR and PQ-OMR for each student.**
- xvii. Please note that SHEET-I and SHEET-II of the Field Notes are given in this manual in Field Notes (Annexure-I) for your reference.
- xviii. The total work is to be completed in the school on the same day i.e, on the day of test administration.

#### Schedule for Administration of Tests in the Sampled School

<b>DAY OF TEST ADMINISTRATION (February 5, 2018)</b>	
<b>SESSION-I (Administration of Tests and PQ)</b>	<b>SESSION-II (TQ, SQ &amp; Remaining work)</b>
<ul style="list-style-type: none"> <li>• Carryout survey activities as explained in Guideline Manual for FIs before administration of tests.</li> <li>• Selection of section (if required).</li> <li>• Selection of students (if required).</li> <li>• Filling up of Field Notes (Sheet-I &amp; Sheet-II).</li> <li>• Making sitting arrangement as per sitting plan.</li> <li>• Distribution of tests and Test-OMR as per Sheet-II of Field Notes.</li> <li>• Explain necessary codes and other information in OMR sheets to sampled students.</li> <li>• Distribution of PQ and PQ-OMR immediately after completion of test administration.</li> <li>• <b>Check that Test-OMR must be in equal number to PQ-OMR and ensure that Student ID should be same on Test-OMR and PQ-OMR for each student and must match with the Sheet-II of Field Notes.</b></li> </ul>	<ul style="list-style-type: none"> <li>• Filling up of Teacher Questionnaire with subject teachers teaching to sampled students and School Questionnaire with Head of the School.</li> <li>• Arrange Test-OMR and PQ-OMR sheets as per Student ID.</li> <li>• <b>Pack one packet for used material i.e., Test-OMR, PQ-OMR, TQ-OMR, SQ-OMR and Field Notes (as explained in Packing of Used and Unused Survey Material).</b></li> <li>• Seal the packet number one (used material) in the presence of Head teacher and get stamp of school with signature of head teacher.</li> <li>• Pack second packet for all unused material.</li> <li>• Complete remaining task if any.</li> </ul>

\* All activities of test administration should be completed within a day.

- xix.** Ensure that all codes should be filled as explained in this manual on Test-OMR, PQ-OMR, TQ-OMR and SQ-OMR. Field Notes must be filled in all respect as mentioned in this manual.

**Below is an example of filling different codes:**

**UDISE Code:** Use 11 digit UDISE school code received from DC/ADC during training.

*An example of UDISE school code:*

0	1	1	2	0	3	1	2	3	1	3
State Code		District Code		Block Code		Village Code			School Code	

**Student ID:**

Allotted by FI in **Sheet-I** of Field Notes against each selected student and thereafter, transferred into **Sheet-II**, Student ID wise serially arranged, i.e. 01-45 with other required fields available in Sheet-II of Field Notes.

**Test form Code:** Ex.: Code for Test form 1 (booklet 1) of Mathematics

2	1
---	---

**Test Form Numbers for different subjects:**

Language – 11, 12, 13; Mathematics – 21, 22, 23; Science – 31, 32, 33

Social Science – 41, 42, 43; Modern Indian Language (MIL) - 51, 52, 53














































**Medium Code:** In which test to be administered e.g. code for **English**

0	3
---	---

Medium Codes		
Sl.No.	Medium of Instruction	Code
1.	Assamese	01
2.	Bangla	02
3.	English	03
4.	Gujarati	04
5.	Hindi	05
6.	Kannada	06
7.	Malayalam	07
8.	Manipuri	08
9.	Marathi	09
10.	Mizo	10
11.	Odiya	11
12.	Punjabi	12
13.	Tamil	13
14.	Telugu	14
15.	Urdu	15
16.	Bodo	16

**xx. Sitting Plan and Distribution of Test Forms :** Sitting arrangement of students and distribution of test forms explained in the following table for 45 students:

*Example : Sitting Plan for 45 Selected Students*

<b>Student ID</b>	<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>	<b>05</b>
					
<i>Test Form No.</i>	<b>11</b>	<b>21</b>	<b>31</b>	<b>41</b>	<b>51</b>
<b>Student ID</b>	<b>06</b>	<b>07</b>	<b>08</b>	<b>09</b>	<b>10</b>
					
<i>Test Form No.</i>	<b>12</b>	<b>22</b>	<b>32</b>	<b>42</b>	<b>52</b>
<b>Student ID</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
					
<i>Test Form No.</i>	<b>13</b>	<b>23</b>	<b>33</b>	<b>43</b>	<b>53</b>
<b>Student ID</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
					
<i>Test Form No.</i>	<b>11</b>	<b>21</b>	<b>31</b>	<b>41</b>	<b>51</b>
<b>Student ID</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>
					
<i>Test Form No.</i>	<b>12</b>	<b>22</b>	<b>32</b>	<b>42</b>	<b>52</b>
<b>Student ID</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
					
<i>Test Form No.</i>	<b>13</b>	<b>23</b>	<b>33</b>	<b>43</b>	<b>53</b>
<b>Student ID</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>34</b>	<b>35</b>
					
<i>Test Form No.</i>	<b>11</b>	<b>21</b>	<b>31</b>	<b>41</b>	<b>51</b>
<b>Student ID</b>	<b>36</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>40</b>
					
<i>Test Form No.</i>	<b>12</b>	<b>22</b>	<b>32</b>	<b>42</b>	<b>52</b>
<b>Student ID</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>
					
<i>Test Form No.</i>	<b>13</b>	<b>23</b>	<b>33</b>	<b>43</b>	<b>53</b>

- xxi. Classroom Activities of FI:** Given below are specific tasks to be completed by FIs–
- Read out instructions and examples for the students from the test booklet before test administration.
  - Explain to sampled students about filling codes on OMR sheets one by one using blackboard.
  - Explain them that answers are to be given by **darkening circle of the option** in the OMR sheet.
  - **Blackboard may be used to explain the method of answering.**
  - Ask students to raise his/her hand, if there is any question regarding directions.
  - **Give sufficient time to complete the test.**
  - **Ensure that Codes on OMR Sheet and SHEET-II of Field Notes must be the same.**

### How to use OMR Sheet?

- Distribute one Test-OMR sheet to each student along with test booklet.
  - Ask students to use CAPITAL LETTERS of English only wherever required (Don't use regional language).
  - The FI will ensure that all the codes have been filled properly in the Test-OMR sheets and Field Notes. The FI should explain each entry one by one to sampled students using blackboard before administration of tests in the school.
  - Explain to students how to mark their responses on the OMR sheet.
  - Ask students to use **ball point pen only (Black or Blue)** for filling up of OMR sheet.
  - Explain to students that **NO OVERWRITING OR CORRECTION** is allowed after darkening the circle against each entry.
  - **Ensure that OMR sheet should not be folded or spoiled, keep it neat and clean.**
- **After completion of test administration, immediately distribute one Pupil Questionnaire (PQ) with PQ-OMR to each student before leaving the class (every selected student has to fill PQ).**
  - **Ensure that student ID on Test-OMR and PQ-OMR should be the same as mentioned in Sheet-II of Field Notes (As PQ data is to be linked with his/her achievement data).**
  - Make sure to collect the Test Booklets, Test-OMR, PQ and PQ-OMR from all the students before they leave the class.

**POST-survey Activities**

- i. Cross check all entries are made correctly and properly on all OMR Sheets and Field Notes.
- ii. Fill **Teacher questionnaire (TQ)** for each subject teacher who is teaching to selected section. (Use separate TQ for each subject teacher. If any teacher is teaching more than one subject to selected students, then use only one TQ for his/her main subject).
- iii. Fill **School Questionnaire (SQ)** with the help of Principal/Head Teacher
- iv. The FI must submit the Survey material (used and unused) immediately after test administration. **Write UDISE code of the sampled school with name and address and also mention number of students appeared on the packet.** The procedure for packaging is given below:

**Packing of Used and Unused Survey Material**

<p><b>Packet-1</b> (Used Material)</p>	<ul style="list-style-type: none"> <li>• Arrange Test-OMR sheets as per Student ID</li> <li>• Arrange PQ-OMR as per Student ID</li> <li>• Then pack one combined packet of used material, i.e., Test-OMR, PQ-OMR, TQ-OMR, SQ-OMR and Field Notes.</li> <li>• Seal the Packet-1 (used material) in the presence of Head teacher and get stamp of school with signature of head teacher.</li> </ul>	<p>To be submitted to District Coordinator immediately after completing tools administration in the sampled school.</p>
<p><b>Packet-2</b> (Unused Material)</p>	<ul style="list-style-type: none"> <li>• Test booklets (Used and unused)</li> <li>• PQ, TQ and SQ (Used and unused)</li> <li>• OMR Sheets of Test, PQ, TQ and SQ</li> <li>• Field Notes and Guideline Manual for FIs</li> </ul>	

**\* To be kept safely at District Level by District Coordinator for at least next six months.**

- v. Both packets have to be handed over to the District Coordinator with actual expenditure statement with original bills and vouchers.
- vi. Collect payment after submission of survey material from DC/ADC.



# FIELD NOTES

(TO BE FILLED BY FIELD INVESTIGATOR)

## National Achievement Survey

### Class X

(Cycle 2)

*Complete all entries before start of the test administration*

1. Date of Survey [in DD MM YYYY format]

D	D	M	M	Y	Y	Y	Y
---	---	---	---	---	---	---	---

2. UDISE Code

--	--	--	--	--	--	--	--	--	--

3. Complete Name and Address of the School \_\_\_\_\_

\_\_\_\_\_

4. Name of the State \_\_\_\_\_ Name of the District \_\_\_\_\_

5. Area Code of the School (1 – Rural, 2 – Urban)

6. Is it a replacement school? If yes, reasons for replacement \_\_\_\_\_

\_\_\_\_\_

7. Section and Medium in which test administered (Use medium code as per sample list) :

Section

Medium

8. Name & Designation of Head of the School \_\_\_\_\_

(Sign. of the Field Investigator)

(Name in Capital letters) \_\_\_\_\_

**9. a. In case Class is a Single Section:**

i. Number of students Enrolled in the Class

ii. Number of students taken the tests

iii. Number of selected students absent on the day of testing

**b. In case Class has more than one Section:**

i. Number of sections of Class

ii. The serial number of the selected section

iii. Number of students enrolled in the selected section

iv. Number of students taken the tests

v. Number of selected students absent on the day of testing

**10. Details of Teachers, teaching the selected section:**

S.No.	Teacher's Name	Subject(s)	Present (P)/Absent (A)
1.			
2.			
3.			
4.			
5.			

**11. Provide following information for all sections of Class X**

Number of students belonging to different SOCIAL GROUPS	
Social Group	No. of Students
SC	
ST	
OBC	
Other	
<b>Total Students</b>	

Number of students belonging to different DISABILITY GROUPS	
Disability Group	No. of Students
<b>LD</b> -Locomotor Disability	
<b>VI</b> -Visual Impairment	
<b>HI</b> -Hearing Impairment	
<b>S&amp;LD</b> -Speech & Language Disability	
<b>ID</b> -Intellectual Disability	
<b>OthD</b> -Other Disability	
<b>Total Students</b>	

## Procedure for the Selection of a Section

(If the school has more than one section in a Class then select section from verified medium only)

If there are **more than one section** in the selected school in a class then select only one section through random sampling method as specified in this annexure.

**Note down the information of all sections of Class X as shown below:**

S.No. of Section	Section Name	Medium of Instruction	Number of Students Enrolled	No. of Students Present on the day of testing	Selected Section (Please tick $\checkmark$ mark)
1.	A	Odiya	48	46	
2.	B	English	54	53	$\checkmark$
3.	C	English	52	52	
4.					
5.					
<b>Total Students</b>					54

**How to get Random Number:** Use school UDISE code digits of District and School to calculate random number as shown below:

### UDISE CODE SYSTEM

0	1	1	2	0	3	1	2	3	1	3
State Code		District Code		Block Code		Village Code			School Code	

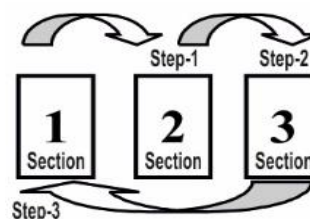
#### Example-1:

**A.** Add together the two digits of the district code (8<sup>th</sup> & 9<sup>th</sup> digit from right) and the two digits of the school code (1<sup>st</sup> & 2<sup>nd</sup> digit from right) from UDISE code as shown below:

District code '12' and School code '13'

$$\text{Random Number} = 1 + 2 + 1 + 3 = 7$$

**B.** Write down the serial numbers of the sections in a line as shown in the figure. Starting from section '1', move to next section at a time in a cyclic fashion, and continue till you get to the number calculated at **A** above as a result. The section where you stop is the section selected.



Starting at section sr. no. '1' to 7 steps bring us to section sr. no. '2' i.e. Section-B. Test the students in section 'B'.

**Note:** If the Random number comes out in 2 digits i.e., 21 then add these two digits again like-  $2+1=3$ , so the Random Number is 3. (Repeat the process until get 1 digit random number).

### Conditions for Selection of the Students

1. If the selected school has presence less than 15 students in the class on the day of survey then survey is to be conducted in that school communicate the same to DC/ADC immediately.
2. If the selected school has minimum 15 and not more than 45 students in the class then take all of them.
3. If there are more than 45 students in the selected section in a Class, then select only 45 students as per procedure.

## Procedure for the Selection of Students

**Step-1 :** List all the students of the selected Section/Class as per school register in **SHEET-I**.

**Step-2 :** Calculate the Sampling Interval (SI) by using formula given below or follow the table of SI :

$$\text{Sampling Interval (SI)} = \frac{\text{Total number of students enrolled in selected section/class in the school}}{45}$$

**Example:** Suppose the total enrollment in the selected section/class in the school is 78, then

$$\text{SI} = \frac{78}{45} = 1.73 \text{ (rounded to 2)}$$

**Example:** Suppose the total enrollment in the selected section/class in the school is 58, then

$$\text{SI} = \frac{58}{45} = 1.28 \text{ (rounded to 1)}$$

**Note:** If the value after decimal is equal to or more than 0.50 then it would be rounded to next whole number and if the value after decimal is less than 0.50 then it would be rounded to preceding whole number.

**Table: Ready Reckoner for Sample Interval (SI)**

<b>Number of Students in the selected section/class in the school</b>	<b>46-67</b>	<b>68-112</b>	<b>113-157</b>
<b>Sample Interval</b>	<b>1</b>	<b>2</b>	<b>3</b>

**Step-3 :** In order to select the first student by Random Start (RS) method, follow the procedure as below:

**Example:** If the **District Code** = 12  
 and **School Code** = 13  
 Add the **District code + School Code** = 1+2+1+3  
 Then, Random start (RS) = 7

**Step-4 :** Select your first student from serially arranged students' list (**SHEET-I**) at S.No.'7' (take reference of Step-1 above). The next student will be selected as per following method:

**RS+SI; RS+2SI; RS+3SI; RS+4SI, likewise...**

**For example:** If SI is 2, then the selected students would be at serial number 7, 9, 11, 13, 15, 17, 19...

<b>RS</b>	+	<b>SI</b>	=	<b>9</b>	;	<b>RS</b>	+	<b>2SI</b>	=	<b>11</b>	;	<b>RS</b>	+	<b>3SI</b>	=	<b>13</b>
7		2				7		4				7		6		

**Step-5 :** If you get the end of list before getting 45 students, then continue the process from the beginning until you have selected 45 students.

**Step-6 :** If by chance you get again to a student already selected in this process, then select the immediate next student and continue your counting following the same process until you get 45 students.

**Step-7 :** Allot Student ID against each selected student in **Sheet-I**. Transfer students' names, (As per class register), and other details in **SHEET-II** as per their Student ID serially.



### SHEET - II

**List of 45 Selected Students arranged serially according to Student ID (in case the selected section/class has less than 45 students, then list all the students and allot student ID).**

Name of the Selected Section \_\_\_\_\_

<b>Attendance:</b> Please mark 'A' in 'Attendance' column for selected absentees.		
<b>GENDER: 1 - Boy, 2 - Girl, 3 - Other</b>	<b>CATEGORY: 1 - SC, 2 - ST, 3 - OBC, 4 - Other</b>	
<b>Children With Special Needs (CWSN)-Type of Disabilities:</b> 1 - None (No Disability); 2 - LD (Locomotor Disability); 3 - VI (Visual Impairment); 4 - HI (Hearing Impairment); 5 - S&LD (Speech & Language Disability); 6 - ID (Intellectual Disability); 7 - OthD (Other Disability)		
<b>TEST FORM No.:</b> Language - 11, 12, 13 Social Science - 41, 42, 43	Mathematics - 21, 22, 23 MIL - 51, 52, 53	Science - 31, 32, 33


Student ID	Name of the Student	Attendance	Gender	Category	CWSN	Test Form Number
01						
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Student ID	Name of the Student	Attendance	Gender	Category	CWSN	Test Form Number
21						
22						
23						
24						
25						
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Annexure-II


Medium Codes		
Sl.No.	Medium of Instruction	Code
1.	Assamese	01
2.	Bangla	02
3.	English	03
4.	Gujarati	04
5.	Hindi	05
6.	Kannada	06
7.	Malayalam	07
8.	Manipuri	08
9.	Marathi	09
10.	Mizo	10
11.	Odiya	11
12.	Punjabi	12
13.	Tamil	13
14.	Telugu	14
15.	Urdu	15
16.	Bodo	16

Sample Design for OMR Sheets



**NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING**  
**NATIONAL ACHIEVEMENT SURVEY (NAS) CLASS X (Cycle-2) : 2017-18**

**TEST-OMR SHEET**



Student Name : \_\_\_\_\_

School Name & Address : \_\_\_\_\_

**SECTION : A**

<p>1. USE ONLY BLACK OR BLUE BALL POINT PEN</p> <p>2. There is only one correct answer for each question. While marking your answer, darken the circle which is a correct answer, as shown in the example below:</p> <p style="text-align: center;"><b>Correct way of marking the answer</b></p> <p style="text-align: center;">○ ○ ● ○</p> <p style="text-align: center;"><b>Wrong way of marking the answer</b></p> <p>1. <input checked="" type="radio"/> ○ ○ ○ ○      2. ○ <input checked="" type="radio"/> ○ ○ ○ ○</p> <p>3. ○ <input checked="" type="radio"/> ○ ○ ○ ○      4. ○ ○ ○ ○ <input checked="" type="radio"/></p> <p>3. Please do not overwrite because it will be treated as wrong answer.</p> <p>4. Please <b>DO NOT FOLD / TEAR OMR SHEET.</b></p>	<p><b>UDISE School Code</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td></tr> <tr><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td></tr> <tr><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td></tr> <tr><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td></tr> <tr><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td></tr> </table>											0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	<p><b>Section</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td>A</td></tr> <tr><td>B</td></tr> <tr><td>C</td></tr> <tr><td>D</td></tr> <tr><td>E</td></tr> <tr><td>F</td></tr> <tr><td>G</td></tr> <tr><td>H</td></tr> <tr><td>I</td></tr> <tr><td>J</td></tr> </table>		A	B	C	D	E	F	G	H	I	J	<p><b>Student ID</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr><td> </td><td> </td></tr> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td></tr> <tr><td>5</td><td>5</td></tr> <tr><td>6</td><td>6</td></tr> <tr><td>7</td><td>7</td></tr> <tr><td>8</td><td>8</td></tr> <tr><td>9</td><td>9</td></tr> </table>			0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
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**SECTION : B - Student Responses**

Q.No.	Responses	Q.No.	Responses	Q.No.	Responses	Q.No.	Responses	Q.No.	Responses
1	1 2 3 4	13	1 2 3 4	25	1 2 3 4	37	1 2 3 4	49	1 2 3 4
2	1 2 3 4	14	1 2 3 4	26	1 2 3 4	38	1 2 3 4	50	1 2 3 4
3	1 2 3 4	15	1 2 3 4	27	1 2 3 4	39	1 2 3 4	51	1 2 3 4
4	1 2 3 4	16	1 2 3 4	28	1 2 3 4	40	1 2 3 4	52	1 2 3 4
5	1 2 3 4	17	1 2 3 4	29	1 2 3 4	41	1 2 3 4	53	1 2 3 4
6	1 2 3 4	18	1 2 3 4	30	1 2 3 4	42	1 2 3 4	54	1 2 3 4
7	1 2 3 4	19	1 2 3 4	31	1 2 3 4	43	1 2 3 4	55	1 2 3 4
8	1 2 3 4	20	1 2 3 4	32	1 2 3 4	44	1 2 3 4	56	1 2 3 4
9	1 2 3 4	21	1 2 3 4	33	1 2 3 4	45	1 2 3 4	57	1 2 3 4
10	1 2 3 4	22	1 2 3 4	34	1 2 3 4	46	1 2 3 4	58	1 2 3 4
11	1 2 3 4	23	1 2 3 4	35	1 2 3 4	47	1 2 3 4	59	1 2 3 4
12	1 2 3 4	24	1 2 3 4	36	1 2 3 4	48	1 2 3 4	60	1 2 3 4

CWSN: None - No disability ; LD- Locomotor Disability ; VI - Visual Impairment ;  
 HI- Hearing Impairment; S&LD- Speech & Language Disability;  
 ID-Intellectual Disability;OthD- Other Disabilities.

Signature of FI





NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING  
**NATIONAL ACHIEVEMENT SURVEY (NAS) CLASS X (Cycle-2) : 2017-18**



**TQ-OMR SHEET**

Teacher Name : \_\_\_\_\_

School Name & Address : \_\_\_\_\_

**SECTION : A**

<p>1. USE ONLY BLACK OR BLUE BALL POINT PEN</p> <p>2. There is only one correct answer for each question. While marking your answer, darken the circle which is a correct answer, as shown in the example below:</p> <p><b>Correct way of marking the answer</b></p> <p style="text-align: center;">○ ○ ● ○</p> <p><b>Wrong way of marking the answer</b></p> <p>1. <input checked="" type="radio"/> ○ ○ ○ ○      2. ○ <input checked="" type="radio"/> ○ ○ ○ ○</p> <p>3. <input checked="" type="radio"/> <input checked="" type="radio"/> ○ ○ ○ ○      4. ○ ○ <input checked="" type="radio"/> <input checked="" type="radio"/> ○ ○</p> <p>3. Please do not overwrite because it will be treated as wrong answer.</p> <p>4. Please <b>DO NOT FOLD / TEAR OMR SHEET.</b></p>	<p><b>UDISE School Code</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> <tr><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td></tr> <tr><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td><td>6</td></tr> <tr><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td><td>7</td></tr> <tr><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td><td>8</td></tr> <tr><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td><td>9</td></tr> </table>											0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	<p><b>Section</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td>A</td></tr> <tr><td>B</td></tr> <tr><td>C</td></tr> <tr><td>D</td></tr> <tr><td>E</td></tr> <tr><td>F</td></tr> <tr><td>G</td></tr> <tr><td>H</td></tr> <tr><td>I</td></tr> <tr><td>J</td></tr> </table>		A	B	C	D	E	F	G	H	I	J	<p><b>Teacher Code</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td>1</td></tr> <tr><td>2</td></tr> <tr><td>3</td></tr> <tr><td>4</td></tr> <tr><td>5</td></tr> <tr><td>6</td></tr> </table>		1	2	3	4	5	6
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Q.No.	Responses
1	A B C
2	A B C D
3	A B C D
4	A B C D E
5	A B C
6	A B
7	A B C
8	A B C
9a	Y N
9b	Y N
9c	Y N
9d	Y N
9e	Y N
10a	A B C
10b	A B C
10c	A B C
10d	A B C
10e	A B C
10f	A B C

Q.No.	Responses
11a	A B C D
11b	A B C D
11c	A B C D
11d	A B C D
11e	A B C D
11f	A B C D
11g	A B C D
11h	A B C D
12a	A B C D
12b	A B C D
12c	A B C D
12d	A B C D
12e	A B C D
12f	A B C D
13a	A B C
13b	A B C
13c	A B C
13d	A B C
13e	A B C
14a	A B C
14b	A B C
14c	A B C
14d	A B C
14e	A B C
14f	A B C
14g	A B C

Q.No.	Responses
15a	A B C
15b	A B C
15c	A B C
15d	A B C
15e	A B C
15f	A B C
15g	A B C
15h	A B C
16a	A B C
16b	A B C
16c	A B C
16d	A B C
16e	A B C
16f	A B C

Signature of FI \_\_\_\_\_



NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING  
**NATIONAL ACHIEVEMENT SURVEY (NAS) CLASS X (Cycle-2) : 2017-18**



**SQ-OMR SHEET**

Name of Head of the School : \_\_\_\_\_

School Name & Address : \_\_\_\_\_

UDISE School Code	Total Sections in Class X	Total Enrollment in all Section in Class X	Enrollment in Selected Section	Absenties in Selected Section
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
0 0 0 0 0 0 0 0 0 0	0 0	0 0 0	0 0 0	0 0
1 1 1 1 1 1 1 1 1 1	1 1	1 1 1	1 1 1	1 1
2 2 2 2 2 2 2 2 2 2	2 2	2 2 2	2 2 2	2 2
3 3 3 3 3 3 3 3 3 3	3 3	3 3 3	3 3 3	3 3
4 4 4 4 4 4 4 4 4 4	4 4	4 4 4	4 4 4	4 4
5 5 5 5 5 5 5 5 5 5	5 5	5 5 5	5 5 5	5 5
6 6 6 6 6 6 6 6 6 6	6 6	6 6 6	6 6 6	6 6
7 7 7 7 7 7 7 7 7 7	7 7	7 7 7	7 7 7	7 7
8 8 8 8 8 8 8 8 8 8	8 8	8 8 8	8 8 8	8 8
9 9 9 9 9 9 9 9 9 9	9 9	9 9 9	9 9 9	9 9

**INSTRUCTIONS**

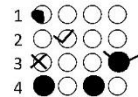
- USE ONLY BLACK OR BLUE BALL POINT PEN
- There is only one correct answer for each question. While marking your answer, darken the circle which is a correct answer, as shown in the example below:
- Please do not overwrite because it will be treated as wrong answer.
- Please **DO NOT FOLD / TEAR OMR SHEET**.

Correct way of marking the answer



Darken the circle completely and accurately as shown in the figure.

Wrong way of marking the answer



Q.No.	Responses
1	A B
2	A B C
3	A B C
4a	Y N
4b	Y N
4c	Y N
4d	Y N
4e	Y N
5a	Y N
5b	Y N
5c	Y N
5d	Y N
5e	Y N
5f	Y N
5g	Y N
5h	Y N

Q.No.	Responses
6a	Y N
6b	Y N
6c	Y N
6d	Y N
6e	Y N
6f	Y N
6g	Y N
6h	Y N
6i	Y N
6j	Y N
7a	Y N
7b	Y N
7c	Y N
7d	Y N
7e	Y N
7f	Y N
7g	Y N
7h	Y N
7i	Y N
7j	Y N
7k	Y N

Q.No.	Responses
8a	A B C
8b	A B C
8c	A B C
8d	A B C
8e	A B C
8f	A B C
8g	A B C
8h	A B C
8i	A B C
8j	A B C
8k	A B C
9a	Y N
9b	Y N
9c	Y N
9d	Y N

Q.No.	Responses
10a	A B C
10b	A B C
10c	A B C
10d	A B C
10e	A B C
10f	A B C
10g	A B C
10h	A B C
10i	A B C
10j	A B C

Signature of FI