## APPENDIX-I
### DEMOGRAPHIC VARIABLES

1. **Age of the student:**
   - 1. 14 years
   - 2. 15 years
   - 3. 16 years

2. **Gender:**
   - 1. Boy
   - 2. Girl

3. **Students educational settings:**
   - 1. Matriculation school
   - 2. Government school
   - 3. Government Aided school

4. **Educational status of the parents:**
   - 1. Illiterate
   - 2. High school level (SSLC)
   - 3. Hr. Sec. Level (HSC)
   - 4. Graduate level
   - 5. Professional degree holders

5. **Occupational status of the parents:**
   - 1. Daily labour
   - 2. Private sector level
   - 3. Government sector level
   - 4. Doing business

6. **Monthly income of the family:**
   - 1. Below Rs. 3000/-
   - 2. Rs. 3001/- to Rs. 5000/-
   - 3. Rs. 5001/- to Rs. 10000/-
   - 4. Rs. 10001/- and above

7. **Number of children in the family:**
   - 1. One
   - 2. Two
   - 3. More than two

8. **Type of family:**
   - 1. Nuclear family
   - 2. Joint family

9. **Locality:**
   - 1. Rural area
   - 2. Urban area
APPENDIX-II

ACHIEVEMENT MOTIVATION INVENTORY

1. A boy is sitting on a cot. He has a book in his hand. An almirah full of books is lying nearby.
   (i) He is preparing questions suggested by his teacher for the forthcoming examination.
   (ii) He is trying to find out the meaning of that word no one in the class could explain.
   (iii) He is looking at the coloured picture given in a book.
   (iv) He is quickly doing the home task given by the teacher.
   (v) He is thinking about a new application of the principle given in the book.
   (vi) He is reading a story.

2. Boy is reading a picture.
   (i) He is thinking whether to complete the picture or to leave it unfinished.
   (ii) He is practicing to make pictures.
   (iii) He is making a picture to participate in the annual art competition to be held in the school.
   (iv) He is thinking whether he should colour the picture.
   (v) He is learning the art of making pictures.
   (vi) He is thinking that when he will have learned drawing well, then he would make beautiful pictures.

3. A boy is holding a model of an airplane and is looking at it.
   (i) He is thinking of becoming an engineer.
   (ii) He is guessing the price of the airplane.
   (iii) He is observing as to how the airplane has been made.
   (iv) He is carefully checking the airplane before demonstrating his flying skill.
   (v) He is waiting for his friend so that he can get the airplane started by him.

4. Two boys are standing, facing the mountains.
   (i) They are enjoying the beauty of nature.
   (ii) They are planning to climb up to the highest peak of the mountain.
   (iii) They are studying the herbs available on the mountain.
   (iv) They have become tired after a lot of walking and are just relaxing.
   (v) They are thinking about the new techniques of mountaineering.
   (vi) They are thinking of writing a report after having inspected the mountainous region.
5. A farmer’s son is ploughing the field.
   (i) He is contributing his share to make up the deficit of food in the country.
   (ii) He is thinking of sowing after he has ploughed the land.
   (iii) He is trying to get the maximum possible yield from his field.
   (iv) He is ploughing the land to get sufficient food for himself and his family.
   (v) He is ploughing the field to sow seeds.
   (vi) He is using chemical fertilizers to make the land more productive.

6. A boy is doing something in the laboratory.
   (i) He is thinking that he should discover some new thing.
   (ii) He is practicing an experiment for the examination.
   (iii) He is clearing the instruments kept in the laboratory.
   (iv) He is busy in discovering new things.
   (v) He is doing an experiment in science.
   (vi) He is looking at instruments placed in the laboratory.

7. A man and a boy are sitting with a table.
   (i) The boy is learning to play on the table.
   (ii) The boy is learning the tricks of the trade from his teacher in order to become a good artist or a good musician.
   (iii) They are wondering as to why other persons have not turned up so far.
   (iv) They are preparing for the examination in music.
   (v) The boy is absorbed in learning new music compositions from that man.

8. Two boys are playing Hockey.
   (i) They are playing Hockey to pass evening.
   (ii) They are learning Hockey from the instructor.
   (iii) They are practicing the Hockey to regain the trophy lost by them in the last competition.
   (iv) They are playing for their amusement.
   (v) They are playing Hockey to check whether the ground is suitable for playing a Hockey match.
   (vi) They are preparing for the final Hockey match.

9. A teacher and some boys are in the class.
   (i) They are participating in a discussion competition on ‘How to check the growing indiscipline in schools’.
   (ii) They are learning a new lesson from the teacher.
   (iii) They are getting a complicated problem solved by the teacher.
   (iv) They are taking part in group discussion to evolve indigenous methods to solve the food problem.
   (v) They are talking with the teacher.
   (vi) They are learning a new formula in mathematics from their teacher.
10. A teacher is sitting in a chair. A boy is standing by his side.
   (i) The boy is informing the teacher about the truants.
   (ii) The boy is standing beside the teacher to recite his lesson.
   (iii) That boy has just now developed a new thing and he is eager to show it to the teacher.
   (iv) The boy is standing there to show the teacher the essay that he has prepared to submit for the essay competition.
   (v) He is standing there to understand a problem from his teacher.

11. A boy is reading something.
   (i) He is looking for the meaning of that word which nobody could tell in the class.
   (ii) He is reading a book of stories to pass the time.
   (iii) He is reading about new discoveries made in the different fields.
   (iv) He is preparing the lesson assigned to him by teacher.
   (v) He is enjoying a book of film songs.
   (vi) He is preparing for some competitive examination.

12. The principal is giving something a boy.
   (i) He is presenting the certificate to that boy for keeping up the name of the school in the last competition.
   (ii) He is praising that boy for maintaining discipline in the class.
   (iii) He is giving some important instructions to that boy.
   (iv) He is giving a prize to that boy for his courageous act.
   (v) He is giving a booklet of rules and regulations to the boy for forthcoming regional competition.
   (vi) He is giving the attendance in the class in the absence of the class teacher.

13. Some boys are playing cricket.
   (i) They are learning to play cricket.
   (ii) They are trying to improve their game.
   (iii) They are playing to pass their recess.
   (iv) They are practicing the game.
   (v) They are preparing to take part in the annual school competition.
   (vi) They are playing an exhibition match to collect funds.

14. A boy is holding some arrows in his hand. There is a target board placed at a distance.
   (i) The boy is waiting for the end of P.T. periods, so that he can go home.
   (ii) He is learning the art of arrow-shooting.
   (iii) He is practicing arrow-shooting to become a good arrow-shooter.
   (iv) He is trying to finish this game quickly so that he can play some other game.
   (v) He is thinking of different techniques of shooting.
He is practicing in order to get the first position in the arrow-shooting competition.

15. A doctor is sitting with the patient.
   (i) He is talking to the patient.
   (ii) He is carefully examining the patient.
   (iii) The doctor has given an injection to the patient and now he is waiting for his fee.
   (iv) The doctor is prescribing the diet for him.
   (v) The doctor is carefully listening to the patient so that he can diagnose his disease properly.

16. A boy is sitting under a lamp. He has a book in his hand.
   (i) He is thinking of doing some great work after completing his studies.
   (ii) He is thinking that now he should start preparing for the examination.
   (iii) He is trying to write something in the book.
   (iv) He is preparing all the possible questions which can be asked in the examination, so that he may score the highest marks in the class.
   (v) He is turning the pages of the book and trying to find out that page on which the questions to be asked by the teacher on the following day are given.
   (vi) He is checking whether there is any name written in the book that he found on way back from school.

17. A boy is doing something with the help of the hammer and chisel.
   (i) He is making a model.
   (ii) He is trying his skill in the craft.
   (iii) He is checking whether the hammer and chisel work properly.
   (iv) He is repairing the broken model.
   (v) By doing this he is getting physical exercise.

18. A boy is standing with a pen in his hand. He has a notebook.
   (i) He will fill the ink and write something on the notebook.
   (ii) He is thinking of writing an interesting story.
   (iii) He is imagining that he will become a writer.
   (iv) He is checking whether the pen writes properly.
   (v) He is thinking of the outline for an essay for a competition.
   (vi) He is solving assigned questions on the notebook with the help of that pen.

19. Some persons are doing various types of work.
   (i) They are discussing as to what they would do so that they can progress.
   (ii) They are busy in the respective tasks.
   (iii) They are working to earn money.
   (iv) They are thinking about various ways to march ahead on the path of progress.
(v) They are doing their work.
(vi) A man has to do something to earn his livelihood. These people are also doing some such work.

20. A boy is flying a kite.
   (i) He is amusing himself.
   (ii) He is thinking as to how he should fly the kite so that he may win the kite-flying competition.
   (iii) He is wondering whether he should participate in the kite-flying competition on the following day.
   (iv) He has just bought the kite out of the money that he got from his mother and he is now trying to fly it.
   (v) He is thinking of becoming a good kite-flier so that he may compete with his companions.
   (vi) He is thinking whether he should compete with the other kite-flier.

21. The teacher is teaching in the class.
   (i) The teacher is trying to complete the course.
   (ii) He is teaching to earn his salary.
   (iii) He is making a study of the effective methods of teaching.
   (iv) He is answering the questions put to him by the students.
   (v) He is punishing those students who have not done their work.
   (vi) He is making a difficult lesson easier by giving new examples.

22. Three boys are running a relay race.
   (i) They are practicing in order to improve their performance.
   (ii) They are learning the relay race during their performance.
   (iii) They are trying to surpass each other in the race.
   (iv) They are demonstrating their skill.
   (v) They are observing sports day.
### APPENDIX-III
#### SELF-ACCEPTANCE INVENTORY

<table>
<thead>
<tr>
<th>S.No.</th>
<th>CONTENT</th>
<th>Agree</th>
<th>Neutral</th>
<th>DA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I looked up to my father as an ideal man</td>
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<tr>
<td>2</td>
<td>When on a group, I usually do what the others want rather than make suggestions.</td>
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<td>3</td>
<td>My daily life is full of things that keep interested.</td>
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<td>4</td>
<td>I doubt whether I would make a good leader.</td>
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<td>5</td>
<td>It is difficult for me to start a conversation with strangers.</td>
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<tr>
<td>6</td>
<td>I something pretend to know more than I really do.</td>
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<tr>
<td>7</td>
<td>Women should not be allowed to drink in cocktail bars.</td>
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<td>8</td>
<td>I would disapprove if anyone drinking to point of intoxication at a party.</td>
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<tr>
<td>9</td>
<td>Most of the argument or quarrels I get are over matters of principles.</td>
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<tr>
<td>10</td>
<td>I must admit that I often do as little work as I can get.</td>
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<tr>
<td>11</td>
<td>I would like to see a bull fight.</td>
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<tr>
<td>12</td>
<td>When in group, I feel myself in trouble to talk about right things.</td>
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<tr>
<td>13</td>
<td>I set a high standard for myself and I feel others should do the same.</td>
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<tr>
<td>14</td>
<td>I was a slow learner during my school days.</td>
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<tr>
<td>15</td>
<td>I seldom or never have dizzy spells.</td>
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<tr>
<td>16</td>
<td>I would like to wear expensive clothes.</td>
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<tr>
<td>17</td>
<td>I never make judgements about people until I sure of the facts.</td>
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<tr>
<td>18</td>
<td>I am certainly lacking in self-confidence.</td>
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<tr>
<td>19</td>
<td>When I work in a committee, I like to make in charge of things.</td>
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<tr>
<td>20</td>
<td>I would rather go without something than ask for a favor.</td>
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<tr>
<td>21</td>
<td>I often do whatever makes I feel cheerful here and now, even at the cost of some distant goal.</td>
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<tr>
<td>22</td>
<td>Once in a while laugh at a dirty joke.</td>
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<tr>
<td>23</td>
<td>Before I do something I try to consider how my friends will react to it.</td>
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<tr>
<td>S.No.</td>
<td>CONTENT</td>
<td>Agree</td>
<td>Neutral</td>
<td>DA</td>
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<tr>
<td>24</td>
<td>I have frequently found myself, when alone pondering such abstract problems as free will, evil etc.</td>
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<tr>
<td>25</td>
<td>At times, I have worn myself out by undertaking too much.</td>
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<tr>
<td>26</td>
<td>It is hard for me to find anything to talk about when I meet a new person.</td>
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<tr>
<td>27</td>
<td>A person does not need to worry about other people if only he looks after himself.</td>
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<tr>
<td>28</td>
<td>When a man is with the women, he is usually thinking about things related to her sex.</td>
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<tr>
<td>29</td>
<td>In a school, I found it very hard to talk before the class.</td>
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<tr>
<td>30</td>
<td>Sometimes I rather enjoy going against the rules and doing I am not supported.</td>
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<tr>
<td>31</td>
<td>It is hard for me to act natural when I am with new people.</td>
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<tr>
<td>32</td>
<td>I think I would like to belong to a motorcycle club.</td>
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<tr>
<td>33</td>
<td>I would like to be an actor on the stage or in the movies.</td>
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<tr>
<td>34</td>
<td>Police cars should be especially marked so that you can always see them coming.</td>
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</tr>
</tbody>
</table>

**DA- Disagree**
## APPENDIX-IV
### STUDY SKILLS INVENTORY

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Study method</th>
<th>YES</th>
<th>SOMETIMES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I study daily in the (a) morning (b) evening (c) morning and evening (d) not everyday</td>
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<tr>
<td>2</td>
<td>I learn more than one subject per day.</td>
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<td>3</td>
<td>I set a goal before studying and try to attain it.</td>
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<tr>
<td>4</td>
<td>I gather all the required materials (pen, books etc) when I start studying.</td>
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<tr>
<td>5</td>
<td>I am enveloped by a feeling of gloom when I start to study.</td>
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<tr>
<td>6</td>
<td>I learn without any external distractions (such as talking to others, viewing T.V)</td>
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<tr>
<td>7</td>
<td>I always study in the same place everyday.</td>
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<td>8</td>
<td>I study word by word.</td>
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<tr>
<td>9</td>
<td>I start studying as soon as I open the book.</td>
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<tr>
<td>10</td>
<td>I day dream during most of my study time.</td>
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<tr>
<td>11</td>
<td>I set a time limit for studying each subject for one week.</td>
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<tr>
<td>12</td>
<td>I learn one paragraph after another.</td>
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<tr>
<td>13</td>
<td>I recall the important points after reading each paragraph.</td>
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<tr>
<td>14</td>
<td>I write down the important points after learning a chapter.</td>
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<tr>
<td>15</td>
<td>I proceed with my studies only after having clarified my doubts.</td>
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<td>16</td>
<td>I devote longer time to the subjects I prefer.</td>
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<tr>
<td>17</td>
<td>I learn the subjects I find difficult when I am feeling fresh.</td>
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<tr>
<td>18</td>
<td>I devote little time on subjects that I dislike or find difficult.</td>
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<td>19</td>
<td>I make a calculated guess of the probable questions in the examination.</td>
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<td>20</td>
<td>I recall the points in the previous chapter</td>
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<tr>
<td>S.No.</td>
<td>Study method</td>
<td>YES</td>
<td>SOMETIMES</td>
<td>NO</td>
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<td>-------</td>
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<tr>
<td></td>
<td>before proceeding on the subsequent chapter.</td>
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<tr>
<td>21</td>
<td>I take adequate periods of rest during my study time.</td>
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<tr>
<td>22</td>
<td>I have problems in recalling learnt material.</td>
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<tr>
<td>23</td>
<td>I use new words, which I learn, in my speech.</td>
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<td>24</td>
<td>I try to study a lot within a short period of time.</td>
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<td>25</td>
<td>I underline the important points as I study.</td>
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<tr>
<td>26</td>
<td>I organize all the points under each section in a chapter.</td>
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<tr>
<td>27</td>
<td>I keep up to date with the day’s lessons.</td>
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<td>28</td>
<td>I learn important definitions and formulae by heart.</td>
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<td>29</td>
<td>I find it difficult in learning them by heart.</td>
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<tr>
<td>30</td>
<td>I start to study as soon as I reach my home.</td>
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<tr>
<td>31</td>
<td>I study without my parents or teachers compelling me to do so.</td>
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<tr>
<td>32</td>
<td>I get distracted easily if other people speak while I am learning.</td>
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<td>33</td>
<td>I note down the important points my teacher mention in the class.</td>
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<tr>
<td>34</td>
<td>I discuss my lessons with my friends.</td>
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<tr>
<td>35</td>
<td>I keep talking during class hours.</td>
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<tr>
<td>36</td>
<td>I recall what was taught at the end of every class.</td>
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<td></td>
<td><strong>HOME WORK</strong></td>
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<tr>
<td>37</td>
<td>I make a note of homework for the next day.</td>
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<tr>
<td>38</td>
<td>I do the homework by myself.</td>
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<tr>
<td>39</td>
<td>I set aside time to complete my homework.</td>
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<tr>
<td></td>
<td><strong>REGARDING EXAMINATION</strong></td>
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<tr>
<td>40</td>
<td>I practice writing important answers before the examination.</td>
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<tr>
<td>41</td>
<td>I learn only those answers that I am likely to be questioned about, in the examination.</td>
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<tr>
<td>42</td>
<td>I practice arithmetic sums before the examination.</td>
<td></td>
<td></td>
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<tr>
<td>43</td>
<td>I learn a particular chapter only after a test has been announced in it.</td>
<td></td>
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</tr>
<tr>
<td>S.No.</td>
<td>Study method</td>
<td>YES</td>
<td>SOMETIMES</td>
<td>NO</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------------------------------------------------------</td>
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<tr>
<td>44</td>
<td>I learn without taking any rest on the day before the examination.</td>
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<tr>
<td>45</td>
<td>I recollect the points required for an answer before I write it down.</td>
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<tr>
<td>46</td>
<td>I finish in time my answers during an examination.</td>
<td></td>
<td></td>
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<tr>
<td>47</td>
<td>I revise the answers before submitting my answer papers.</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td><strong>OBSTACLES TO EFFECTIVE STUDY</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>48</td>
<td>I am not able to study well due to excessive household chores.</td>
<td></td>
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</tr>
<tr>
<td>49</td>
<td>I do not find time to study because I spend too much time on leisure.</td>
<td></td>
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<tr>
<td>50</td>
<td>I am not able to study because my home is very noisy.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>I am not interested in studies because my parents do not encourage me with gift articles.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>I am not interested in studies because my teachers do not give me sufficient encouragement.</td>
<td></td>
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</tbody>
</table>
APPENDIX-V
INTELLECTUAL ACHIEVEMENT RESPONSIBILITY SCALE
[THE IAR SCALE]

1. If a teacher passes you to the next grade, would it probably be
   (a) Because she liked you
   (b) Because of the work you did
2. When you do well on a test at school, is it more likely to be,
   (a) Because you studied for it
   (b) Because the test was especially easy
3. When you have trouble in understanding something in school, is it usually,
   (a) Because the teacher did not explain it clearly
   (b) Because you did not listen carefully
4. When you read a story and cannot remember much of it, is usually,
   (a) Because the story was not well written
   (b) Because you were not interested in the story
5. Suppose your parents say you are doing well in school, is it likely to happen,
   (a) Because your school work is good
   (b) Because they are in good mood
6. Suppose you did better than usual, in a subject at school, it would be,
   (a) Because you tried harder
   (b) Because someone helped you
7. When you lose at a game of cards of checkers, does it usually happen?
   (a) Because the other player is good at the game
   (b) Because you don’t play well
8. Suppose a person does not think you are bright or clever,
   (a) Can you make him change his mind if you try to
   (b) Are there some people who will think you are not very bright, no matter
       what you do?
9. If you solve a puzzle quickly, is it,
   (a) Because it was not a very hard puzzle
   (b) Because you worked on it carefully
10. If a boy or a girl tells you are dumb, it more like that they say that,
     (a) Because they are med at you
     (b) Because what you did really was not every bright
11. Suppose you aspire to become a teacher, scientist or doctor and if you fail it is,
     (a) Because you did not work hard enough
     (b) Because you were in need of someone’s help and you did not get that help
12. When you learn quickly in school, it is usually,
     (a) Because you paid close attention
     (b) Because the teacher explained it clearly
13. If a teacher says to you ‘your work is fine’, is it
   (a) Something teachers usually say to encourage pupils
   (b) Because you did a good job

14. When you find it hard to work arithmetic or maths problems at school, is it,
   (a) Because you did not study well enough before you tried them
   (b) Because the teacher gave problems that were too hard

15. When you forget something you heard in the class, is it,
   (a) Because the teacher did not explain it very well
   (b) Because you did not try very hard to remember

16. Suppose you were not sure about the answer to the question, which the teacher
    asked you, but your answer was correct, is it
    (a) Because she was not as particular as usual
    (b) Because you gave the best answer you could think of

17. When you read a story and remember most of it, is it usually,
    (a) Because you were interested in the story
    (b) Because the story was well written

18. If your parents tell, you are acting silly and not thinking clearly, is it likely to be,
    (a) Because of something you did
    (b) Because they happen to be feeling cranky

19. When you don’t do well in a test in school, is it,
    (a) Because the test was hard
    (b) Because you did not study for it

20. When you win at a game of cards or checkers, does it happen,
    (a) Because you play well
    (b) Because you usually act that way

21. If people think you are bright or clever, is it,
    (a) Because they happen to like you
    (b) Because you usually act that way

22. If a teacher did not pass you to the next grade, would it probably be,
    (a) Because she ‘had it in for you’
    (b) Because your school work was not good enough

23. Suppose you don’t do up to your capability in a subject in school, it is,
    (a) Because you were not careful as usual
    (b) Because somebody bothered you and kept you from studying

24. If a boy or girl tells you that you are bright, it is usually,
    (a) Because you thought up a good idea
    (b) Because they like you

25. Suppose you became a famous teacher, scientist or doctor, do you think this
    would happen?
    (a) Because other people helped you when you needed it
    (b) Because you worked hard
26. Suppose your parents say that you are not doing well in your school work, is this likely happen more,
   (a) Because your work is not very good
   (b) Because they are feeling cranky
27. Suppose you are showing a friend how to play a game and he has trouble with it would that happen,
   (a) Because he has not able to understand how to play
   (b) Because you could not explain it well
28. When you find it easy to work arithmetic or maths problems at school is it usually,
   (a) Because the teacher gave you especially easy problems
   (b) Because you studied your book well before you tried them
29. When you remember something you heard in class, is it usually,
   (a) Because you tried to remember
   (b) Because the teacher explained it well
30. If you cannot work a puzzle, is it more likely to happen.
   (a) Because the instruction was not written clearly enough
   (b) Because you are not especially good at working puzzles
31. If your parents tell you that you are bright or clever, is it more likely,
   (a) Because they are feeling good
   (b) Because of something you did
32. Suppose you are explaining how to play a game to a friend and he learns quickly, would that happen more often,
   (a) Because you explained it well
   (b) Because he was able to understand it?
33. Suppose you are not sure about the answer to a question your teacher asks you and the answer you gives turns out to be wrong, is it likely to happen.
   (a) Because she was more particular than usual
   (b) Because you answered too quickly
34. If a teacher says to you ‘try to do better’, would it be,
   (a) Because this is something she might say to get pupils to try harder
   (b) Because your work was not as good as usual?