

A P P E N D I X B

SCIENTIFIC ATTITUDE TEST

- INITIAL FORMAT

Name: _____ School: _____
Date of Birth: _____ Class: _____
Section: _____

Dear Pupil,

In the following pages, is given a set of 44 items. The 44 items represent situations which you might experience in daily life. For each of these items, three possible answers are given, marked a, b, c. Read each item carefully. Encircle the answer which you think most rightly applies to you. There is no right or wrong answer. These answers only indicate how you would behave in that particular situation. An illustration is given below to help you understand what you should do.

Illustration:

If you see a hefty person, do you

- (a) conclude that he is rude.
- (b) watch him how he behaves with people and then conclude whether he is rude.
- (c) deal with him several times and then conclude whether he is rude.

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If your answer is 'b', then, you would encircle the letter 'b' as shown here.

If you see a hefty person, do you

- (a) conclude that he is rude.
- ☒ (b) watch him ~~how~~ he behaves with people and then conclude whether he is rude.
- (c) deal with him several times and then conclude whether he is rude.

Now you may proceed with the items.

1. One of your friends shows you a bottle containing an unbroken egg. Its mouth is much smaller in size than the egg. After seeing it, what would you do?
 - (a) I will appreciate it as a great magic.
 - (b) I will ask him how he managed to do it.
 - (c) I will try to find the possibilities of how I could do it myself.
2. You find many natural events happening around you daily, like sunrise, sunset, wind, birth, death etc. What do you think about these?
 - (a) since these are natural events, they happen without any reason.
 - (b) one may be able to find reasons for them sometimes but not always.

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- (c) all these events have definite reasons.
3. A person is born lame due to:
- (a) his sins in previous birth.
 - (b) just a chance.
 - (c) certain cause which doctors can find out.
4. Suppose, you are not feeling well. Your mother tells you that you could take a certain tablet and then go to school. But you feel that you cannot, because you feel sick, would you,
- (a) obey her because you believe elders are not to be questioned by children.
 - (b) obey her because you think that she might be right.
 - (c) explain to her how you feel and then obey her only if you are convinced how the tablet would help.
5. Ram has got the highest marks in two class tests. Would you think that he would get first rank in the final examination?
- (a) Yes, as he has scored highest marks in two class tests.
 - (b) He may not because a few students who scored only a few marks less than Ram might excel him.
 - (c) It is difficult to say because first rank in the final exam. would mainly depend upon the students' performance in the exam.

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6. Suppose, you appeared in an examination. On the day of the examination, you wore a pink dress. You did well in the examination, Would you think that:
- (a) wearing a dress of pink colour would always help to do well in the examination.
 - (b) wearing dress of pink colour would help in maintaining good mood during examination.
 - (c) wearing a dress of pink colour or any other colour has nothing to do with performance in examination.
7. You have written an essay to be submitted to the teacher. Before doing so, you would:
- (a) make sure that the essay is in the same form as suggested by the teacher.
 - (b) read the essay again carefully, so that no mistake remains.
 - (c) give it to a few of your friends to go through and improve it according to their suggestions.
8. You see many peculiar things around you: very tall people, very fat people, etc. How do you react to this?
- (a) You assume that people are of different kinds and these people too are.
 - (b) You start thinking, how is it that these people are so different from most others.
 - (c) You ask somebody who knows, why this is so and you would like to know more about this.

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9. Your friend is a clever boy who always stands first in mathematics. After the examination, you have checked your answers with his answers. After this checking would you,
- (a) consider that answers that are different from his are wrong.
 - (b) be doubtful about these answers which are different from his.
 - (c) verify your answers with the teacher or the book, as your friend too may be wrong.
10. Your science teacher asks you to carry out certain activities on your own, at home. He further says that there is no need to show the results of these to him as these experiments are only for your benefit. What would you expect a boy of your age to do in such a situation.
- (a) As these are not to be shown to the teacher, he can easily avoid and do something more interesting.
 - (b) He may do a few of them as it was told by the teacher.
 - (c) He would do all the activities as they would be of benefit to him.
11. You have prepared a model of an aeroplane. Your friends give their comments on it. How would you

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react to these comments?

- (a) You would be happy or sad depending upon the comments.
- (b) You would not pay much attention to the comments as nothing can be done to improve the model.
- (c) Try to understand each comment in a way in which your model could be improved next time.

12. Typed, cyclostyled and printed material on a topic are kept in the library. You would think about the content of the material that:

- (a) the printed form is most superior.
- (b) all the three forms may be equally superior.
- (c) **it** may not be possible to tell about the superiority without reading these.

13. In a car accident, some people were killed and some escaped unhurt. Do you think that:

- (a) those who were killed were destined to be so.
- (b) those who were killed were unlucky to be seated in more dangerous places.
- (c) the position of the car and the seats the people occupied at the time of accident were such that they were killed.

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14. Suppose, you see your friend crying on his way to school. What would you think is the cause of his crying?
- (a) Since he has just come out of the house, his mother might have beaten him.
 - (b) As he had told the previous day that he had some different home work to do, he might be crying because he might not have completed it.
 - (c) As there can be many reasons for his crying, it is difficult to know the correct one without asking him.
15. One of your classmates whom you do not like is going to narrate his scouting camp experience in the morning assembly. How would you react in this situation?
- (a) I would not like to listen to him.
 - (b) I would listen to him and find faults which I can tell others after the assembly.
 - (c) I would listen to him as I am interested in scouting and I have not been able to attend that camp.
16. There is a beautiful butterfly in your study room lying on the ground, but it appears dead. What do you do with the insect?
- (a) Since, the butterfly is dead, I will throw it outside with a sad feeling.

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- (b) I will examine it carefully whether it is really dead.
 - (c) I will examine its various parts and preserve it with all its parts intact.
17. You are asked to make repeated observations in an experiment. How would you react to this suggestion?
- (a) making the same observations repeatedly is a mere waste of time.
 - (b) as I would do the experiment carefully, I do not think repeated observations are needed.
 - (c) I would make a number of observations so as to get accurate readings.
18. While reading a book, you find that something about birds was mentioned and it was just the opposite of what your teacher has taught in the class. What will you do in such a situation?
- (a) You would consider what is written in the book is correct as it is a standard printed one.
 - (b) You would consider the teacher to be correct as he had mentioned a number of examples.
 - (c) You would read other books and discuss with others to know what is correct.
19. Suppose, you are a student of physics and have studied something about stars and planets in the sky. Your friend who has not studied that, puts a question to

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you out of curiosity. But you do not know the correct answer. What do you do in that situation?

- (a) I will give some answers to him since he does not know much about stars and planets.
- (b) I will tell him what all I know about stars and planets in such a way as to impress him about my knowledge.
- (c) I will tell him that I do not know the correct answer to his question. But I would tell him those things which I know about stars and planets.

20. If your teacher has made a number of remarks on an essay you have written, what would you do in that situation?

- (a) I would accept all the remarks and revise the essay accordingly.
- (b) I will accept only those remarks that appear right to me.
- (c) I will carefully go through the remarks and discuss with others to decide which remarks suit my work.

21. Your friend Ram tells you that you will not be able to do a particular problem as it is a difficult one. What would you do in this situation?

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- (a) I would not waste my time on the problem as Ram must be right.
 - (b) I would hesitate to do it as Ram is good in mathematics, still, he tells that the problem is difficult.
 - (c) I would try to do the problem as it may be difficult for Ram but may not be for me.
22. One new student joins your class. From his appearance and way of talking you do not like him. But, later events show that he is quite intelligent and friendly. Would you,
- (a) stick on to your first impression as it is usually the best impression?
 - (b) hesitate to be friendly with him as others may think that you have no definite views?
 - (c) like to revise your first impression and include him in your circle of friends.
23. You must be familiar with the weekly fortune predictions which appear in newspapers and magazines. How do you react to these?
- (a) I read these carefully before I plan out important activities for the week.
 - (b) I do not take serious note of these as I am not sure how far these are true.

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- (c) I do not take serious note of these because I have experienced that what is predicted does not happen.

24. Your teacher has told you to organize certain programme in the school. You have liking and the ability for such an assignment. What would you do?

- (a) I would accept the work immediately and start doing the necessary things.
- (b) I would accept the work if the teacher agrees to provide a few students to help me organize it.
- (c) I would discuss with him the different aspects of the assignment and the facilities needed for organizing it and decide accordingly.

25. Suppose, there is a stamp collection competition in your school. Your craft teacher says that the person who has collected the maximum number of stamps of different countries would get the first prize. Your brother has got a very good collection of stamps whereas you have a few only. What would you do in this situation?

- (a) Participate in the competition with the help of your brother's stamps.
- (b) Participate in the competition with your own stamps and a few good ones of your brothers.
- (c) Participate in the competition with the help of stamps you have collected.

26. Suppose you challenged your friend that a certain poet had written a particular piece of poetry. Later you find that someone else has written it. What would you do in this situation?
- (a) I would not tell my friend about it as I would not like him to know that I was wrong.
 - (b) I would not mind if my friend comes to know about it.
 - (c) I would be happy that my friend challenged me as it gave me scope to find the truth. .
27. Your teacher decides to get the answer books corrected by students themselves. He distributes the answer books in such a way that no student gets his own answer book. You come to know that your answer book has gone to your close friend. What would you expect him to do?
- (a) You would expect him not to find many mistakes as he is your close friend and these are exam. papers.
 - (b) You would like to leave it to him to decide the way he likes to do it.
 - (c) You would expect him to give marks according to the correct answers only.
28. Your science teacher, while teaching about sea animals, just tells you that pearls are formed in a particular

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sea animals. You find this mention interesting but the details of it are not given in your biology book. What would you like to do in this regard after the class?

- (a) What teacher has mentioned in the class would be enough for me as it is not included in the syllabus.
- (b) I would read more about it, if I can easily get some material on it.
- (c) I would like to know more about it by reading books and discussing with elders.

29. If a book is missing from your bag and is found in your friend's bag, what would be your reaction to this situation?

- (a) As the book is in your friend's bag, surely, he would have taken it.
- (b) I may not be able to say that my friend has stolen the book as, perhaps, some other boy might have kept it in his bag.
- (c) I will ask my friend and other boys about the book and then arrive at the correct happening.

30. Suppose, your sister has spoiled one of your things, like a collection of stamps, would you,

- (a) be angry with her for doing such a silly thing.
- (b) ask her how did it happen.

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- (c) allow her to explain herself and ascertain whether she did it deliberately.
31. Your teacher asks you to find out something by doing a small experiment. How do you start your experiment?
- (a) With a keen desire to complete the experiment as quickly as I can and find the desired result.
- (b) I would conduct the experiment systematically and expect to get the desired result.
- (c) I would proceed with the experiment step by step, very carefully and would not bother even if I do not get the expected results.
32. Suppose, some one is describing an incident to you. Would you,
- (a) listen to only interesting parts of the incident?
- (b) listen to all details of the incident and wonder how that could happen.
- (c) listen to all details of the incident and ask how certain things in the incident has happened that way.
33. Suppose, you and your friend have prepared a model of an aircraft. The idea is given by your friend and, the rest of the things you have done. When your teacher asks whose idea this is, how do you answer?

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- (a) I would say, it is mine since I have prepared the whole model.
- (b) I would say, that it is of both, since my friend and I are both involved in its preparation.
- (c) I would say that it is of my friend, even though I have prepared the model.

34. If a disease like cholera is fast spreading in your locality, what would you expect to be done to control it?

- (a) mass prayers in religious places.
- (b) due medical care along with prayers.
- (c) deep medical efforts to control and prevent the disease.

35. Suppose, at dinner time, you, your sister and brothers are having a discussion on movies. One of them disagrees with what you say. Would you,

- (a) cut him short while he speaks.
- (b) allow him to speak but do not listen to him.
- (c) listen to what he has to say and discuss your differences with him.

36. Your father has brought a packet for you. But, immediately after his arrival, he got busy with something. What would you do in this situation?

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- (a) I will not bother as I know he is going to give it to me when he is free.
- (b) I will anxiously wait for my father to get free.
- (c) I will ~~try~~ to imagine the contents of the packet on the basis of his talk in the morning, size of the packet, occasion, etc.

37, After seeing a movie,

- (a) I would not like to think about it as it was just for entertainment.
- (b) I would think over the different aspects of it and would not bother to find ^{out} how it could be improved as it is technical matter.
- (c) I would discuss with others, the weak and strong points about the different aspects of the movie and try to arrive at certain improvements.

38. Do you think, in any situation, man should behave according to:

- (a) what sacred books say because they are always right.
- (b) what men in those situations have commonly been doing.
- (c) what he thinks is right in these situations.

39. Suppose, your friend has grown a plant which is rarely seen in India in his garden. How do you react to it when he describes about it?

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- (a) I will very carefully listen to the description as he is my friend.
- (b) I will like to know from him all the details about the plant by putting questions after description, if necessary.
- (c) I will go to his place, see the plant and then try to find out more about it from him and other sources.

40. A particular topic is being discussed in the class. Your teacher puts an idea with which you do not quite agree. You want to give your views about it. You would,

- (a) give your views immediately before anyone else says the same thing.
- (b) listen to the teacher carefully so that you understand his idea before giving your views.
- (c) listen to some more discussion on this idea, so that you can understand it in greater details, and then give views accordingly.

41. In a discussion on a topic, someone puts an idea which is opposed by your close friend. What would you do in the situation?

- (a) I would support my friend even though he is wrong.
- (b) I would remain silent even though I disagree with my friend.
- (c) I would support the idea as it is a right one.

42. Your teacher has asked you to write a nice descriptive essay. Three of your friends, do it in three ways. which, one of the ways, in your opinion, is right?
- (a) Write down the essay from a book where it is nicely given.
 - (b) Read the essay from the book where it is given, take down the main points and then write your own essay with the help of these points.
 - (c) Read many similar essays and then write your own essay.
43. After correcting your home work, three teachers tell you the following three different things. Which one of them has acted as a teacher should?
- (a) Note the corrections I have made carefully and don't commit them again.
 - (b) Go through the corrections, and if you need clarification, ask me.
 - (c) While carrying out the corrections, consult your parents, books, etc. to check the corrections made.
44. The teacher conducts a test and gives the answer sheets to the students in the class to correct them. He explained the correct answer to each question to ensure correct marking. How would you react to it?
- (a) I would not like the students correcting the answer sheets as many of them would mark the

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wrong answers of their friends as correct.

- (b) It would be alright if the students are correcting the answer sheet, as, even if a few may mark wrong answers rightly, they may in the long run, learn to do it properly.
- (c) As the teacher has explained the correct answers, all the students would do the corrections properly.

Instruction:

Here are given two paragraphs '1' and '2'. Paragraph '1' is the original material, whereas, paragraph '2' is the copy of it. The typist while typing the paragraph '2' has made many mistakes. Compare paragraph '2' with that of '1' and point out the mistakes by encircling in paragraph '2', the mistakes which the typist has made in retyping paragraph '1'.

Paragraph '1'

Ram explained, "giving is what art is all about. So if I have a carving in my house, and someone admires it, I give it away. When an artist ceases to give, he dies as an artist. He paused. "So life is good. It has all been worthwhile. My art will live."

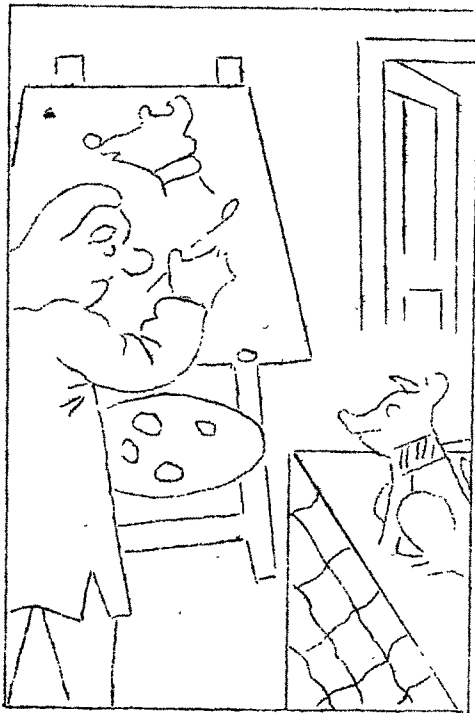
Paragraph '2'

Ram explained, "Giving is what art is all about so, if I have a Carving in my House, and someone admires, it I give it away. when an artest Ceases to give he dies as an artist.. He ¶ Paused. 'So life is good, It has all been Worthwhile. My art, Will life."

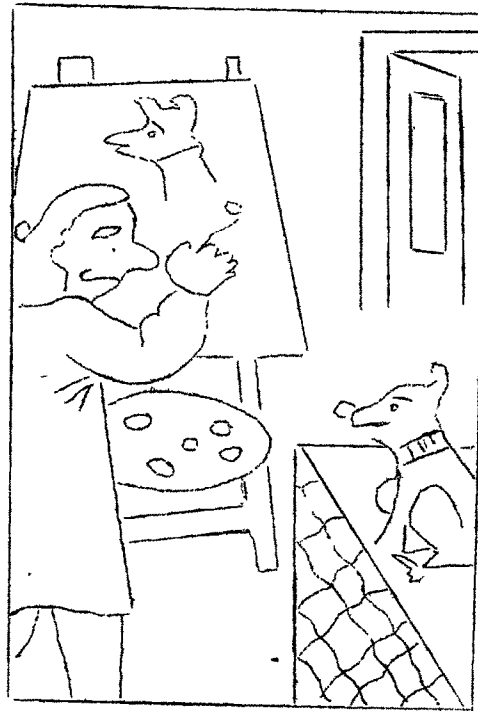
Instructions:

Here are given two pictures 'A' and 'B'. 'A' is the original picture, whereas, 'B' is the copy of it. The two pictures appear similar for the first look, but, they are not similar. The artist has committed many mistakes in the picture 'B' while copying from 'A'. Try to **mark** the mistakes which the artist has committed in the picture 'B' by putting a circle round the mistake in the picture 'B'

'A'



'B'



Instructions:

This is the picture which a 10th standard student has drawn for his craft examination. You see many things in the picture which the boy has drawn. Observe the picture carefully and list out all the objects which you see in the picture.



Instructions:

Here is given the picture drawn by an artist during his leisure time. You can see many objects drawn by the artist in the picture. Observe the picture carefully and -

- (1) name all the objects that you observe in the picture and
 - (2) write what you think the persons in the picture are doing.
-



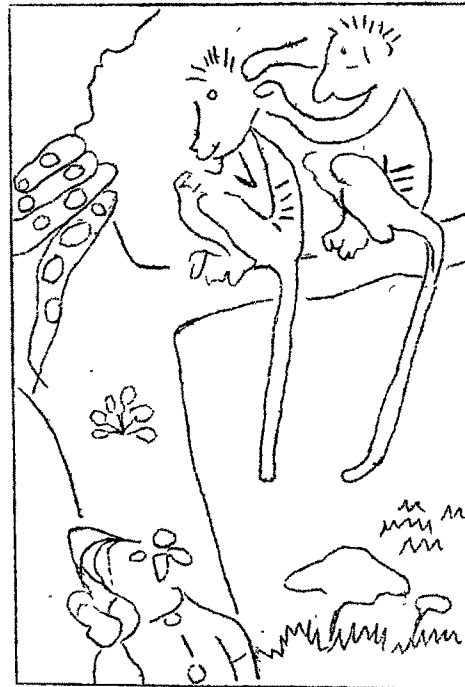
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'A'



'B'



SCIENTIFIC ATTITUDE TEST- FINAL FORMAT

Name: School:
Date of Birth: Class:
Section:

Dear Pupil,

In the following pages, is given a set of 24 items. The 24 items represent situations which you might experience in daily life. For each of these items, three possible answers are given, marked a, b, c. Read each item carefully. Encircle the answer which you think most rightly applies to you. There is no right or wrong answer. These answers only indicate how you would behave in that particular situation. An illustration is given below to help you understand what you would do.

Illustration:

If you see a hefty person, do you

- (a) conclude that he is rude.
- (b) watch him how he behaves with people and then conclude whether he is rude.
- (c) deal with him several times and then conclude whether he is rude.

If your answer is 'b', then, you would encircle the letter 'b' as shown here.

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If you see a hefty person, do you

(a) conclude that he is rude.

(b) watch him how he behaves with people and then conclude whether he is rude.

(c) deal with him several times and then conclude whether he is rude.

Now you may proceed with the items.

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(a) just a chance.

(b) his sin's in previous birth.

(c) certain cause which doctors can find out.

2. Your science teacher, while teaching about sea animals, just tells you that pearls are formed in a particular sea animal. You find this mention interesting but the details of it are not given in your biology book. What would you like to do in this regard after the class?

(a) I would read more about it, if I can easily get some material on it.

(b) I would like to know more about it by reading books and discussing with elders.

(c) What teacher has mentioned in the class would be enough for me as it is not included in the text-book.

3. Your teacher decides to get the answer books corrected by students themselves. He distributes the answer books in such a way that no student gets his own answer book. You come to know that your answer book has gone to your close friend. What would you expect him to do?
- (a) You would expect him not to find many mistakes as he is your close friend and these are exam.papers.
 - (b) You would expect him to give marks according to the correct answers only.
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- (a) allow him to speak but do not listen to him.
 - (b) cut him short while he speaks.
 - (c) listen to what he has to say and discuss your differences with him.
5. Your teacher has told you to organize certain programme in the school. You have the liking and the ability for such an assignment. What would you do?
- (a) I would discuss with him the different aspects of the assignment and the facilities needed for organizing it and decide accordingly.

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- (b) I would accept the work if the teacher agrees to provide a few students to help me organize it.
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6. Suppose, your friend has grown a plant which is rarely seen in India in his garden. How do you react to it when he describes about it?
- (a) I will go to his place, see the plant and then try to find out more about it from him and other sources.
 - (b) I will like to know from him all the details about the plant by putting questions after description if necessary.
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7. Your teacher has asked to write a nice descriptive essay. Three of your friends, do it in three ways. Which, one of the ways, in your opinion, is right?
- (a) Read many similar essays and then write your own essay.
 - (b) Read the essay from the book where it is given, take down the main points and then write your own essay with the help of these points.
 - (c) Write down the essay from a book where it is nicely given.

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8. If a book is missing from your bag and is found in your friend's bag, what would be your reaction to this situation?

(a) As the book is in your friend's bag, surely, he would have taken it.

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9. You must be familiar with the weekly fortune predictions which appear in newspapers and magazines. How do you react to these?

(a) I do not take serious note of these because I have experienced that what is predicted does not happen.

(b) I do not take serious note of these as I am not sure how far these are true.

(c) I read these carefully before I plan out important activities for the week.

10. One of your classmates whom you do not like is going to narrate his scouting camp experiences in the morning assembly. How would you react in this situation?

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- (a) I would not like to listen to him.
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19. A particular topic is being discussed in the class, your teacher puts an idea with which you do not quite agree. You want to give your views about it. You would,
- (a) give your views immediately before anyone else says something.
 - (b) listen to some more discussion on this idea, so that you can understand it in greater detail, and then give your views accordingly.
 - (c) listen to the teacher carefully so that you understand his idea before giving your views.
20. Suppose, you are a student of physics and have studied some information about stars and planets in the sky. Your friend who has not studied this information puts a question related to this to you out of curiosity. But you do not know the correct answer. What would you do in that situation.
- (a) I will give some answers to him since he does not know much about stars and planets.
 - (b) I will tell him that I do not know the correct answer to his question.
 - (c) I will tell him what all I know about stars & planets in such a way as to impress him about my knowledge.
21. Typed, cyclostyled and printed materials on a topic are kept in the library. You would think about the

content of the material that:

- (a) the printed form is most superior.
- (b) it may not be possible to tell about the superiority without reading these.
- (c) all the three forms may be equally superior.

Instruction:

Here are given two paragraphs '1' and '2'. Paragraph '1' is the original material, whereas, paragraph '2' is the copy of it. The typist while typing the paragraph '2' has made many mistakes. Compare paragraph '2' with that of '1' and point out the mistakes by encircling in paragraph '2', the mistakes which the typist has made in retyping paragraph '1'.

Paragraph '1'

Ram explained, "Giving is what art is all about. So if I have a carving in my house, and someone admires it, I give it away. When an artist ceases to give, he dies as an artist. He paused. "So life is good. It has all been worthwhile. My art will live."

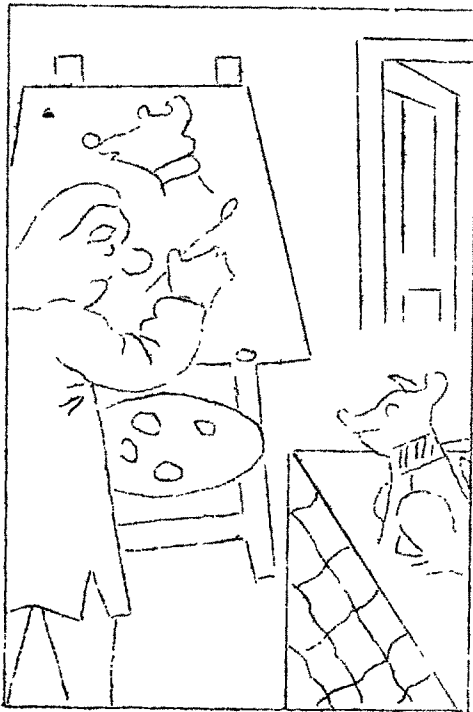
Paragraph '2'

Ram explained, "Giving is what art is all about so, if I have a Carving in my House, and someone admirres it, I give it away. when an arttest Ceases to give he dies as an artict... He Paused, 'So life is good, It has all been Worthwhile. My art, Will life."

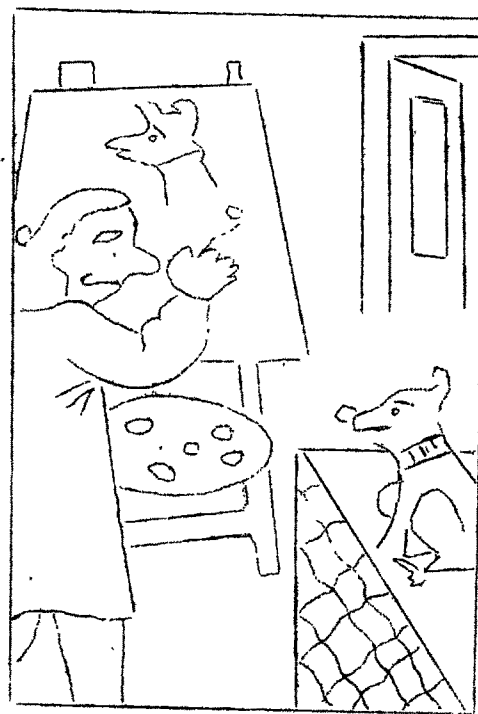
Instructions:

Here are given two pictures 'A' and 'B'. 'A' is the original picture, whereas, 'B' is the copy of it. The two pictures appear similar for the first look, but, they are not similar. The artist has committed many mistakes in the picture 'B' while copying from 'A'. Try to ~~mark~~ the mistakes which the artist has committed in the picture 'B' by putting a circle round the mistake in the picture 'B'.

'A'



'B'



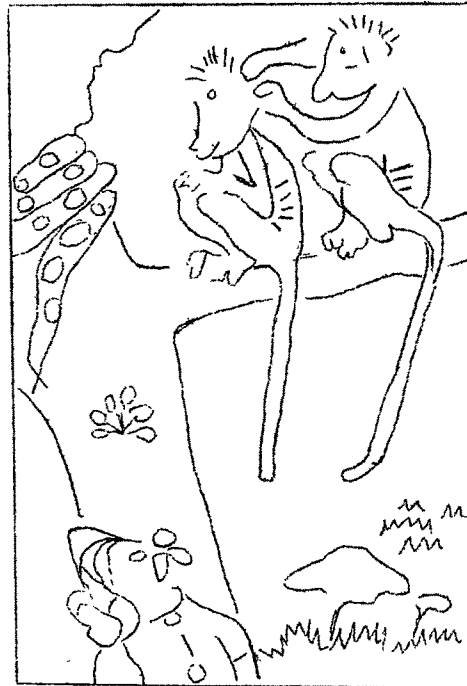
Instructions

Here are given two pictures 'A' and 'B'. 'A' is the original picture, whereas 'B' is the copy of it. The two pictures appear similar for the first look, but, they are not similar. The artist has committed many mistakes in the picture 'B' while copying from 'A'. Try to mark the mistakes which the artist has committed in the picture 'B' by putting a circle round the mistake in the picture 'B'

'A'



' B '



SCIENTIFIC ATTITUDE TEST- SCORING KEY

Item No.	a	b	c
1	0*	1*	2*
2	1	2	0
3	0	2	1
4	1	0	2
5	2	1	0
6	2	1	0
7	2	1	0
8	0	1	2
9	2	1	0
10	0	2	1
11	1	2	0
12	1	0	2
13	0	2	1
14	0	1	2
15	2	1	0
16	0	2	1
17	0	2	1
18	2	0	1
19	0	2	1

Contd.....

Scoring Key (Contd.)

Item No.	a	b	c
20	0	2	1
21	0	2	1
22	1 - 6	- 0*	
23	7 - 12	- 1*	
24	above 12	- 2*	

*
0 = Least scientific
1 = Moderately scientific
2 = Most scientific