

Appendices

Appendix (1) Science Achievement Test

Appendix (2) Classroom Observation Schedule

Appendix (3) Classroom Environment Scale

Science Achievement Test
Class VIII

Time: 1:30 hrs

M.M: 50

Note: All questions are compulsory.

Q.I Define following (Any5)

2x5=10

- (i) Electroplating
- (ii) Buoyant Force
- (iii) Electric Current
- (iv) Hydrocarbons
- (v) Focal Length
- (vi) Photosynthesis

Q.II Answer in one or two sentences

2x4=8

- (i) Give two uses of algae.
- (ii) Mention two adaptive features of aquatic plant.
- (iii) Write two methods to prevent corrosion.
- (iv) What are the four features of animal husbandry?

Q.III Describe in brief (Any 3)

4x3=12

- (i) What is marsh gas? How is it prepared in the laboratory?
- (ii) What are fossils? How are they formed?
- (iii) What is buoyancy? State Archimedes principle related to it.

(iv) What is gangue? How is it separated from sulphide ores by the froth floatation process?

Q.IV Explain with diagram (Any 2)

5x2 = 10

(i) Human Eye

(ii) Dry Cell

(iii) Nitrogen Fixation in Leguminous plants

Q.V Answer in one word

1x5 = 5

(i) Which is the hardest known material?

(ii) Which is the most abundant metal in the earth crust?

(iii) Which metal is highly resistant to corrosion?

(iv) Which metal is used for galvanizing iron?

(v) Who discovered penicillin?

Q.VI Fill in the blanks

1x5 = 5

(i) Food is cooked by _____ energy in solar cooker.

(ii) Myopia can be corrected by _____.

(iii) Rice and Wheat are _____ producing plants.

(iv) Light rays bend towards the normal when they travel from _____ medium to _____ medium.

Classroom Observation Schedule

S No.	Activity	Observed	Not Observed
1.	Teacher thinks about feelings of students.		
2.	Teacher decides seating arrangement.		
3.	Students work on their own speeds.		
4.	Teacher talks with each student.		
5.	Teacher talks less listens more.		
6.	Students choose their own partners for group work.		
7.	Students conclude from information.		
8.	All students use same type of text book.		
9.	Teacher takes personal interest in each student.		
10.	Most of the students participate in discussion.		
11.	Students are told how to work.		
12.	All students do same type of work at the same time.		
13.	Teacher helps every student.		
14.	During discussion students present their views.		
15.	Students are told how to behave in class.		
16.	Instead of solving the questions themselves students ask the teacher.		
17.	Teacher is friendly with students.		
18.	Teacher decides duration of test.		
19.	Teacher gives the answer of every question.		
20.	Teacher helps the student he/she feels difficulty.		
21.	Students are asked questions.		
22.	Students are punished for their misbehaviour.		

23.	Students find the answers to questions arose during discussion.		
24.	Instead of standing in front of the class, teacher approaches each student.		
25.	Students participate in the classroom activity.		
26.	Teacher explains figures.		
27.	Teacher tries to know interest of the students.		
28.	Different students use different books, instruments and other things.		
29.	Students are encouraged to be sensitive towards feelings of others.		
30.	Students' thoughts and suggestions are considered during discussion.		
31.	Students are told results of breaking the rules.		
32.	Students find out the answers for difficult questions.		
33.	Students ask questions.		
34.	Students who do not follow the rules are punished.		
35.	Teacher facilitates discussion.		

Classroom environment scale

Instructions

There are twenty statements related to certain activity.

- If the activity takes place then tick (3)
- If the activity takes place sometimes then tick (2)
- If the activity does not take place then tick (1)

S No.	Activity	3	2	1
1.	Teacher accepts the views of students readily.			
2.	Students are appreciated for their views.			
3.	Students are motivated to read interesting material.			
4.	Teacher inspires students through his own perspective.			
5.	Students are taught by new and interesting methods.			
6.	Teacher discusses educational subjects after school time also.			
7.	Teacher motivates students for self study in small groups.			
8.	If a difficulty arises then teacher introduces to students problem solving methods.			
9.	Teacher asks students about what they would like to study next.			
10.	Teacher feels despair when students give wrong answers			
11.	Teacher inspires other students to present their views on answer obtained from one student.			
12.	Teacher behaves friendly and motivates students also for friendly behaviour among themselves.			

13.	Teacher gives illustrations from daily life for clear understanding.			
14.	Teacher welcomes new students whole heartedly.			
15.	Teacher treats all students alike.			
16.	Teacher uses different interesting methods to teach.			
17.	Teacher tries his level best to develop efficiency in students.			
18.	Teacher motivates students to complete their homework.			
19.	Teacher informs students not only about his subject but others also.			
20.	Teacher helps students for self learning.			