APPENDIX 1

NORTH-EASTERN HILL UNIVERSITY
DEPARTMENT OF EDUCATION
MIZORAM CAMPUS : AIZAWL

ACHIEVEMENT TEST IN SCIENCE

Instructions

There are 50 questions in the test. Three answers are given for each question marked by letters - a, b, and c where only one answer is correct. Encircle the letter corresponding to correct answer against the corresponding question number in the answer sheet provided for marking answer.

Example : Q - The valency of Hydrogen is
(a) 1  (b) 2  (c) 3
A - (a)  b  c

Do not write anything in the question paper. Extra sheet for calculation if necessary will be provided. Time given is one hour.

1. \( \text{Zn} + \ldots \ldots = \text{Zn SO}_4 + \text{H}_2 \)
   (a) \( \text{HCl} \)  (b) \( \text{H}_2 \text{SO}_4 \)  (c) \( \text{HNO}_3 \)

2. We (a) can  (b) cannot  (c) sometimes can hear ultrasonic sound.

3. Which of the followings is a flightless bird?
   (a) Ostrich   (b) Vulture   (c) Babbler
4. Phosphorous combines with oxygen forming
   (a) Phosphoric acid  (b) Water  (c) Phosphorous Pentoxide
5. Galileo Galilei is famous for his
   (a) Lens  (b) Microscope  (c) Telescope
6. The word 'amphibian' refers to those animals that can
   lead their life on
   (a) Land  (b) Water  (c) both Land and Water
7. Each cell of a plant is surrounded by
   (a) Protoplasm  (b) Cytoplasm  (c) Cell wall
8. Three balloons of same size are filled with
   (a) Hydrogen  (b) Oxygen  (c) Air
   respectively. If they are let go, which will go up fastest?
9. What soil is best for the growth of plant?
   (a) Clayey soil  (b) Sandy soil  (c) Loamy soil
10. Conduction is the transference of heat in which molecules
    of a substance
    (a) do  (b) do not  (c) sometimes do
    move bodily.
11. Speed of sound is
    (a) more than  (b) less than  (c) equal to
    the speed of light.
12. In how many ways is a frog able to take in oxygen?
    (a) 1  (b) 2  (c) 3
13. Draw a labelled diagram of solar eclipse showing the sun, the moon, the earth and the rays of sunlight.

14. Iodine is used to test the presence of
   (a) sugar    (b) starch    (c) minerals
   in the seed.

15. Sound (a) can   (b) cannot   (c) sometimes can propagate in vacuum.

16. One method used to prevent rusting of iron is
   (a) by dipping iron in water
   (b) by dipping iron into molten zinc
   (c) by magnetising.

17. How many calories does an egg contain?
   (a) 100   (b) 75   (c) 50

18. All acids contain replaceable
   (a) oxygen    (b) hydrogen    (c) nitrogen

19. The lightest gaseous element known is
   (a) oxygen    (b) hydrogen    (c) nitrogen

20. The lightest gaseous element known is
   (a) oxygen    (b) hydrogen    (c) nitrogen

21. Draw a labelled diagram of respiratory organs showing
   lungs, trachea, larynx and nose.

22. Concave mirror is used in
   (a) camera    (b) telescope    (c) slide projector

23. Water cycle in nature influences
   (a) climatic conditions    (b) oxygen    (c) neutralization
25. Heat reaches us from the sun by
   (a) Conduction  (b) Convection  (c) Radiation

26. Fishes are flattened at sides and tapered at the ends which help them to move quicker and this is called
   (a) steam lined body  (b) fins  (c) tail

27. Wall lizard can stay in the ceiling upside down because its limb has
   (a) sucker  (b) claws  (c) fingers

28. Draw a labelled diagram of the preparation of Oxygen by
   heating potassium permanganate showing Oxygen gas, potassium permanganate, gas jar and source of heat.

30. Black surfaces are (a) worse  (b) better  (c) same absorbers and radiators of heat than polished surface.

31. Oxygen is a good supporter of
   (a) combustion  (b) reduction  (c) composition

32. Virtual image (a) can  (b) cannot  (c) sometimes can be reflected just like light rays.

33. What part of a stem conduct water and mineral salts upwards from soil?
   (a) Xylem  (b) Phloem  (c) Epidermis

34. Climbing plants stand with the help of some support by
   (a) coiling round the support
   (b) leaning against the support
   (c) tendrils
35. Pure water can be obtained from sea water by the process of
(a) Evaporation    (b) Condensation    (c) Distillation

36. The pitch of a sound depends upon the frequency of the sound while the loudness of a sound depends on
(a) the magnitude of the frequency
(b) the magnitude of its vibration
(c) the size of the body

37. Coca Cola contains
(a) acid gas    (b) carbon dioxide gas    (c) salt gas

38. Seed requires air, suitable temperature and
(a) soil    (b) water    (c) hydrogen
for germination.

39. Which of the following gas is necessary for photosynthesis:
(a) oxygen    (b) nitrogen    (c) carbon dioxide

40. Jagdish Chandra Bose applied method of
(a) physics    (b) chemistry    (c) biology
to study with a quantitative precisions, various phenomena in biology.

41. The valency of Al and Br are 3 and 1 respectively in Aluminium Bromide. Its formula is
(a) Al Br    (b) Al₃ Br    (c) Al Br₃

42. Ray of light after passing through a prism
(a) bends away from    (b) bends towards to
(c) does not bend to the base of the prism.
43. The part of plant that prepares food is
   (a) root    (b) stem    (c) leaf
44. Which of the following is vertebrate?
   (a) worm    (b) insect  (c) snake
45. How does fish take in oxygen?
   (a) through the lungs
   (b) through the gill filaments
   (c) through the air bladder
46. How much heat is given out when 500 gm of water steams at 100 C? Heat of vapourization = 540 Kcal/Kg
   (a) 0
   (b) 2,70,000 kilocalories
   (c) 27,00,000 kilocalories
47. Birds have (a) feather    (b) wing    (c) hollow bones to lessen their weights.
48. One characteristics of a reptile is that they have
   (a) eyes    (b) car     (c) egg
49. Which of the following is a base?
   (a) H₂SO₄    (b) KOH     (c) H₂O
50. The process of hydrogenation of oils is used for preparing
   (a) Dalda    (b) Preserved fruit  (c) acid.
APPENDIX 2
(English Version)

NORTH-EASTERN HILL UNIVERSITY
DEPARTMENT OF EDUCATIONAL RESEARCH AND STUDIES
MIZORAM CAMPUS : AIZAWL

SCIENCE ATTITUDE SCALE
(Mrs. Avinash Grewal)

DIRECTIONS

Given below are some statements about science. Some of these are statements describing how you might feel about science. We are interested in working your valuable opinion about science as a subject of study. You may agree with some of these statements and you may disagree with others. After you have read a statement carefully, decide whether or not you agree with it.

If you agree strongly with a statement put a circle (o) around the category SA (Strongly Agree); if you agree put a circle around A (Agree), if you are undecided put a circle around U (Undecided), if you disagree put a circle around D (Disagree) and if you strongly disagree put a circle around SD (Strongly Disagree).

You are requested to give your free and frank opinion.

STATEMENTS

1. Scientists are persons without human considerations. SA A U D SD
2. Scientific careers are most useful to the society than other careers. SA A U D SD
3. Study of science subjects is rather a dull affair.
4. Other subjects cannot be properly understood without the knowledge of science.
5. Science subjects are very difficult to study.
6. Science subjects are more exact than others.
7. Science is bound to lead our society into godlessness.
8. Science subjects provide more recreation than other subjects.
10. Science sharpens our reasoning power and logical thinking.
11. Science fails to solve all of our problems.
12. Science subjects are useful for getting a success in the competitive examinations.
13. Too much emphasis on science would bring down our moral standards.
14. Science alone is responsible for our technical and industrial progress.
15. A student gets discouraged when he fails to answer certain questions in science.
16. Working in a scientific field brings more fame.

17. Science can be studied by males only.

18. Science subjects open up many avenues of employment.

19. Science has made us to depend entirely on machines.

20. Science has turned the impossibilities into possibilities.
APPENDIX 3

NORTH-EASTERN HILL UNIVERSITY
DEPARTMENT OF EDUCATIONAL RESEARCH AND STUDIES
MIZORAM CAMPUS : AIZAWL

SCIENCE ATTITUDE SCALE
(Mrs. Avinash Grewal)

KAIHHRUAINA

Heng a hnuiaia ziak hi science chungchang thil thenkhat ani a. A thente hi chuan science chungchang a i ngaihdan an phawk mai thei. Science zirna chung changa i ngaihdan dik tak hriat kan duh hle a. Heta inziak thenkhat hi i ngaihdan nena inzul a awm mai thei; a thente chu i ngaihdan nen a inanglo mai thei bawk. Ngun tak a ngaíhtuah chunga i chhiai hnuah i ngaihdan nen a inan leh an loh chiang ang che.

I pawm zawng tak mai anih chuan a thu inziak zawna (SA) Strongly Agree tih kha thai bial hnan la; i ngaihdan a ni ve a nih chuan A (Agree) kha thai bial hnan ang che. A thu inziak chung changah ngaíhdan fumfe i nei lo anih chuan U (Undecided) kha thai bial hnan la, i ngaihdan nen a inang lo a nih chuan D (Disagree) kha thai bial hnan la, tin, i ngaihdan nen a in persan hle chuan SD (Strongly Disagree) kha i thai bial hnan dawn nia.

I ngaíhdan dik tak-tlang takin tilang hram ang che.
STATEMENTS

1. Scientist-te hi midangte ngaihtuahlo mi an ni. SA A U D SD

2. Science thiamna hmanga eizawna hi eizawna dang zawng aiin khaw-tlang tan a chhenfakawm zawk. SA A U D SD

3. Science zir hi thil ninawm tak a ni. SA A U D SD

4. Science thiam loh chuan subject dang a thiam tak tak theih loh. SA A U D SD

5. Science subjects hi a harsa em em hlawn. SA A U D SD

6. Science hi subject dang zawng zawng aiin a dik chiah chiah bik. SA A U D SD

7. Science hian Pathian awm ring lo mi-ah mi a siam vek ang. SA A U D SD

8. Science subject hian subject dang zawng aiin rilru leh taksa intihharhna (recreation) a pe tam. SA A U D SD

9. Science thiamna ringawt hian mihring nun a siam thei lo. SA A U D SD

10. Science hiam awmze nei tak leh fing taka thil chhutna-ah mi a tanpui. SA A U D SD

11. Science hian kan harsatna zawng zawng a su kiang vek thei lo. SA A U D SD

12. Hna zawnna-a Exam na-ah Science subjects atangin hlawhtlin a awl bik. SA A U D SD

14. Thilsiamna lam leh technical lam a hmasawna hi science vang liau liau a ni.

15. Science subject-a zawhna then-khat chhan theihloh a neihin zirlai chu a hnung thin.


17. Science chu mipa zir chi chauh a ni.


19. Science hian kut ke berah khawl (machine) min hman tirin, an tel lova awm thei lovah min siam.

He test-ah hiam item 20 a awm a. I nitin nunah harsatna eng eng emaw i tawk thei. Harsatna engemaw i tawh a, chu harsatna sutkianna atana tangkai ni-a i hriot leh i tih nga tur ni bawk a i hriot te lo hriot hi heng item te hian an tum ber a ni.

Item tin hi ngun takin chhiai la, harsatna sukiang turai tih tur ber, pakhat chauh zel thai bial hnan ang che. A hnuai entirna pek hi chhiai phawt la.

ENTIRNA: Tunlai hian kan ramah sikserh natna (Malaria) a tam hle-in mi tam takin he natna avang hian nunna an·chan a ni. Nang leh i chhungete he natna lakah hian in him theih nan, he natna rawn thlentu hi suat tul i tiin, i tum hle bawk a. A hnuaii rannung (insect) eng ber hi nge i suat ang?

a. Tho (house-fly)
b. Thosi pa (Male anopheles)
(c.) Thosi nu (Female anopheles)
d. Khumfa (bed bug)
1. In school field a in pawlin games in neih laiin field ah chuan ui pakhat a lokal a, in thian pakhat a rawn seh ta mai a. Hemi chungchangah hian engnge i tih hmasak ber ang le?
   a. Ui chu ka um vat ang
   b. Doctor ka ko ang.
   c. Damdawiin-a dah ka rawt ang.
   d. A sehna laia thi chhuak tihtawp ka tum phawt ang.

2. Lakhuihthei i vel dawn a, i chemte hman thin chu a lo tui ek reng mai a, chemte pakhat zawk erawh chu a lo la tui ek ve lo. Chu chemte chu a tui ek ve mai loh nan, hman rih loh a, dah that i duh ta a. A tui ek ve loh nan engtiangin nge i tih ang?
   a. Tuiin fai takin ka sil phawt ang.
   b. Tel mawm ka chulh ang a, ka dang ang.
   c. Rawng ka hawih (paint) ang.
   d. A khat tawkin tui sa-in ka sil thin ang.

3. Nikhat chu i nauvin saidawium-a tui chu filter tui emaw tiiin a in ta pawp mai a, Khawnvartui a lo ni reng mai si a. Engtiangin nge i tanpui ang?
   a. Tui thianghlim ka intir teuh ang.
   b. Daikal (dai leng) vat turin ka ti ang.
   c. A luak theih nan luak tichhuak thei intur ka pe vat ang.
   d. Mut hilhna damdawi ka eitir ang.
4. Exercise hahthlak tak mai, tha sen tam ngaihna chi ber lak i duh a, heng a hnuai a mite hi a eng ber hi nge i thlan ang?
   a. Tui hleuh
   b. Sakawr chung chuan
   c. Ke-a thui tak kal
   d. Thirsakawr chuan (cycling)

5. Inah i nau nen rawng inbawl laiin i nau kawr hak lai chu a lo kang palhin a alh ta mai a, engtinngge i tih ang?
   a. Min pui turin thenawm te ka au ang.
   b. A kang chu tihmih ka tum ang
   c. Doctor ka ko ang.
   d. Ka kan ve loh nan ka tlan sawn phawt ang.

6. Artui i kang dawn a, artui chu a chhe lova, a eitlak ngei a ni tih tikeh lovin engtinngge i hriat theih ang?
   a. Ka hnim ang
   b. Ka thing ang
   c. Tuiah ka chiah ang.
   d. A hmel landanah ka hre mai ang.

7. Nipui lai a tui a hal hian, tui vawit in kan chak bik thin a, tui dahvawhna (vur bawm) nei te silo ula, in chhungkua-in tui vawt in in thin theih nan engah hian nge tui chu i dang ang?
   a. Hlum belah
   b. Stainless Steel belah
   c. Alluminium belah
   d. Tui um (Mau bur) ah
8. Work Experience in nei laiin in pawla mi pakhat hnar a lo thi ta a, a nasa viau mai a, chumi tanpui tur chuan engnge i tih hmasak ber ang?
   b. Doctor ka ko ang.
   d. Thichhuak tihreh ka tum ang.

9. In leng hmanhmawh tak mai i nei a, thingpui i lum a, i no hmantur chu glass no (rial no) a ni. No pakhata i han thlit chuan a khi ta'mai a, a dangte chu an khi ve ang tih i hlau ta hle mai a, i hmanhmawh tawh si, engtinngge he harsatna hi i saktin ang?
   a. No dangte chu ka chhum so zet ang.
   b. No chu tui lumin ka sil phawt ang.
   c. Thingpui chu thlit hma-in ka nghak dai phawt ang.
   d. An khik ve kher tawh loh ringin, ka thli pawp pawp ang.

10. Needle and Thread race (Hriau thil chak leh tlan chak inkawp a intihsiak)-ah i tel ve a. I thil ran theih nan engtiang hian nge i thil ang?
   b. Mit pahnih mengin ka thil ang.
   c. Hriau kua (a beng) chu hriau sin zawkin ka vit phawt ang.
11. In vengah Cholera a leng a, in chhungkua-in in kai ve loh nan engtianga inven hi nge thaber a i hriat?
   b. Nitin kan inbual thin ang.
   c. Tui chhuan so kan in thin ang.
   d. Cholera vei kan hmuh apiangin hnar kan hup ang.

12. Thla sik lai hian zanah phei chuan a vawt kan ti thei hle thin a. Zan mut laia i pindan tihlum i duh a, a hnuaiia mite hi a eng ber nge i pindan tihlum nan i thlan ang?
   a. Gas stove
   b. Electric Heater
   c. Mei ling
   d. Lungalh thei (coal).

13. Chemistry laboratory a experiment i tih laiin vanduai thlak takin Caustic Soda (NaOH) i mitah i tilut hlauh mai a, engtingge i tih ang?
   a. Ammonium Hydroxide (NH₄OH) in ka sil vang ang.
   b. Tui lumin ka sil vat ang.
   c. Boric acid in ka sil vat ang.
   d. Sulphuric acid (H₂SO₄) in ka sil vat ang.

14. In Sitting room thar chu a zau bawk a, a nuam hle dawn a. Mahse tawng hian 'aw thangkhawk' a awm tajin a, i ngaimawh hle mai a, engtia tihreh nge i tum ang?
   b. Thutthleng leh dawhkan tam tawk ka dang ang.
   c. Bang chu rawng ka hnawih (paint) ang.
   d. Room chu ngun takin ka sil ang.
15.  Khaw lum lai hian thlai chhum leh bawnghnute te hi a hingin a chhe awl hle mai a. Bawnghnute chu a chhiat loh nan engtinnge i tih ang?
   a. Germs (natna hrik) tihlum turin minute 5 (nga)· ka chhuang so ang.
   b. Ngun takin ka chhuang so ang a, chumi zawh chuan ka chhin tha ang.
   c. Tho bawm theihloh turin ka siam ang a, ka chhuang lum bawk thin ang.
   d. Ka chhuang so ang a, chumi zawhah hmun daiah chhin lohvin ka dah ang.

16.  In inchhunga electric current kal danah him tawklo a awm a. Tuidawt-a tui i herhchhuah lai chuan current-in a man thei che a. Hemi chungchanga tih tur tul hmasa ber chu engnge ni a i hriat?
   a. Electric lam thiam mi ka ko ang.
   b. Keimahin siam that ka tum ang.
   c. A Main Switch ah ka Off ang.
   d. Rubber slipper bunin tui chu ka herb haw mai ang.

17.  I chhungte dang awm loh hlanin i naute awm chu a khua a lo sik thutin a lo kaih ta mai a. Hemi chungchangah hian engnge i tih hmasak ber ang le?
   b. A lu/tukkhum chu tuivaw·-in ka leih vak ang.
   c. Lum takin ka tuam ang.
   d. Midang ka pun vat ang.
18. Kan ram sik leh sa hi, tunhma kum sawm (10) vek kal ta nena kan khaikhin chuan a lo danglam ta hle mai a. Tlang ram ni siin a lum ve ta hle ani. A lum zual chang phei chuan hrehawm kan ti hle a. He boruak lo lum hrehawm ta hle mai hi, a tihnep dan kawng tha ber ni- a i hriat chu eng hi nge le?

a. Mitin-in Air Condition hman.
b. In tina Fan (Ceiling Fan) neih.
c. In bul vela thing phun uar theuh.
d. Cold drinks leh ice cream man tlawm zawk a zuar tu tam tawk Aizawl a neih.

19. A hnuaiia thu te hi tunlaia khawtlangin kan buaipui em em, sual (social evils) kan tihte an ni hlawm a. Thumal tin hi awmze nei turin kan rem dik teh. Saptawng (English words) an ni hlawm.

(i) P O U M I
(ii) N E R H I O
(iii) R R O T P N O I C U
(iv) D R M X A N A
(v) Q O R U I L
(vi) B N G I L M A G
(vii) G G M S N G U I L
(viii) C D E I I S U
(ix) P A E R
(x) F T H E T
20. Puzzle-ah hian Science lama mi hmingthangte paruk, an thil hmuhchhuah pakhat theuh nen zeh a ni a, thai-in han zawng chhuak teh le.

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APPENDIX - 5

NORTH-EASTERN HILL UNIVERSITY
DEPARTMENT OF EDUCATION
MIZORAM CAMPUS : AIZAWL

PROBLEM SOLVING ABILITY TEST (PSAT)

Directions

This test consists of 20 items. In your daily life you may come across certain problems of varied nature. This test aims at knowing your reactions toward various activities useful in finding solutions to such problems. Each problem in the test is provided with four possible solutions, marked by letter a, b, c and d. You are required to read each item carefully and then decide what your first reaction to it is. Encircle the letter corresponding to correct reaction against the corresponding question number in the answer sheet provided for marking answer.

Example: There is a widespread of malarial disease in our state now a days, and many people have lost their lives because of this disease. To safeguard yourself and your family from this dreadful disease, you want to eradicate the insect which is responsible for this disease. Read the list of insects below. Which one will you eradicate?

a. house-fly
b. Male anopheles
c. female anopheles
d. bed bug
1. While playing in your school field, a dog comes and bites one of your playmates. What would be your first reaction to help him?
   a. I will chase the dog
   b. I will call a doctor
   c. I will suggest taking him to the hospital
   d. I will give him first aid.

2. While trying to peel pineapple, you find that your kitchen knife gets rusted. What will you do to prevent rusting of your other knives which do not yet get rusted?
   a. I will wash them nicely with water
   b. I will oil and then store them like that
   c. I will paint them
   d. I will wash them with hot water occasionally

3. Your younger brother drinks kerosene oil from the bottle by mistake, thinking that it is filtered water. What will you do first to help him in this situation?
   a. I will make him drink plenty of pure water
   b. I will make him pass stool quickly
   c. I will give him an emetic of warm salt water.
   d. I will give him sleeping pills.

4. You are interested in physical exercise. You want to take exercise which involves maximum expenditure of energy. Which of the given exercises will you choose?
   a. swimming
   b. horse riding
   c. jogging
   d. cycling
5. While cooking dinner with your sister at home, her cloth catches fire suddenly. What will be your first reaction in this problematic situation?
   a. I will shout for help.
   b. I will try to put out the fire by covering her with blanket.
   c. I will call a doctor
   d. I will run away from the scene so that I am safe from fire.

6. You are going to make an omelette. How can you tell that the egg is safe for eating without breaking it first?
   a. I will know by shaking it
   b. I will know by smelling it
   c. I will know by immersing it in a bowl of water
   d. I will know it from its appearance.

7. You want to have cool water for your family during summer, but you do not have a refrigerator in your home. How will you manage to have cool water all through the hot season?
   a. I will keep water in an earthenware pot
   b. I will keep water in an alluminium vessel.
   c. I will keep water in a stainless vessel
   d. I will keep water in bamboo tubes.

8. While having work experience class in your school garden, one of your friends' nose bleeds profusely, what will you do first to help him?
   a. I will run and call his parents
   b. I will tremble with fear
   c. I will call a doctor
   d. I will try to stop the bleeding immediately.
9. While preparing tea for visitors who are in kind of a hurry to leave, you find that the glass in which you pour tea cracks. What will you do so that the rest of the glasses do not crack?
   a. I will boil the rest of the glasses first
   b. I will wash the rest of the glasses with warm water before pouring tea in them
   c. I will wait till the tea gets cold.
   d. I will quickly pour tea hoping that they will not crack like the first one.

10. You take part in the 'needle and thread' race in your school sports. How will you thread the needle so that you win the race?
    a. I will close one eye and thread it
    b. I will open both the eyes and thread it
    c. I will poke the eye of the needle with the point of another needle and then thread it.
    d. I will look through the eye of the needle against the sun and thread it.

11. Cholera breaks out in your locality. What preventive measure will you and your family take in this regard?
    a. I will disinfect the house.
    b. We will take bath everyday
    c. We will drink only boiled and cooled water when we feel thirsty.
    d. We will close our mouths and noses with hankerchief when we happen to see cholera patient.
12. In this hilly area of ours you feel cold, specially during winter nights. You want to keep your bed room warm throughout the night during this season. What will you choose to keep the room warm at night?
   a. gas stove  
   b. electric stove  
   c. charcoal  
   d. coal

13. You are working in your chemistry laboratory. Unfortunately caustic soda (NaOH) gets into your eye. What will be your reaction to this?
   a. I will wash my eye with ammonium Hydroxide (NH₄OH) immediately.
   b. I will wash my eye with warm water immediately.
   c. I will wash my eye with boric acid immediately.
   d. I will wash my eye with sulphuric acid (H₂SO₄) immediately.

14. You have a new sitting room which is quite big and nice. But when you talk, an 'echo' is produced, and you do not like this. What will you do to stop the echo?
   a. I will put carpet on the floor.
   b. I will put sufficient number of furniture
   c. I will paint the wall
   d. I will wash the room thoroughly with water everyday.
15. In warm weather, milk gets spoiled easily. How will you prevent the milk from getting spoiled?
   a. I will boil it so as to kill the germs which may be present in it to cause spoilage.
   b. I will boil it nicely and after that I will cover it.
   c. I will protect it from flies and warm it occasionally.
   d. I will boil it and then keep it in a cool place uncovered.

16. There is something wrong with the electric current in your house. When you open the water tap you get a shock. How will you act in this dangerous situation?
   a. I will call an electrician
   b. I will try my level best to make it alright.
   c. I will put off the main switch first of all
   d. I will open the tap wearing rubber slipper

17. While your parents are away, the baby under your care gets fever and convulses. What will you do first in this problematic situation?
   a. I will call a doctor quickly.
   b. I will pour cold water at the back of his head.
   c. I will keep him very warm with blanket.
   d. I will all the neighbours.
18. The climate of this hilly area has changed a lot and become very hot, specially during summer. In what way can you best solve this problem?

a. I will suggest that every house has an air conditioner.
b. I will suggest that every house has ceiling fans.
c. I will suggest that every family plant trees in the compound of the house.
d. I will suggest that more ice-cream be produced at cheaper price.

19. The physical, spiritual and moral lives of our present society are in danger. Certain things are responsible for this. Below is a list of such things written in jumbled form. Re-arrange each word so that they make sense.

(I) POUMI
(II) NERHIO
(III) RROTPNOICU
(IV) DRMXANA
(V) QORUIL
(VI) BNGILMAG
(VII) GGMSNGUIL
(VIII) CDEIISU
(IX) PAER
(X) FTHET
In the puzzle below, six scientists with one invention each are given. Try and detect them.

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PERSONAL DATA SHEET

1. Name ________________________  2. Sex _____  3. Age __
4. Class ________________________  5. School ________________________
6. Permanent Residence: ____________________________________________
7. I pa emaw, i guardian emaw-in zirna lam a a thlen chin (Educational Qualification) ____________________________
8. I pa emaw, i guardian emaw hnathawh hmimg (Occupation): ____________________________________________
9. In chhungkaw thla tin pawisa lak luh zat (Monthly Family Income): ____________________________________________
10. A hnuaia thil hrang hrang tarlan te hi, in in-a in neih ang apiang, a zawnah thai ( ) zel teh le.
   (a) Puan thui khawl          (b) Gas stove
   (c) Pressure Cooker         (d) Electric Istiri
   (e) Electric hmang chi     (f) Electric hmanga room tih-
     chhang/cake ur bawn     lumna (Room heater)
   (g) Electric hmanga rawng  (h) Electric hmanga tui
     bawlna (Heater)         tihlumna (Geyser)
   (i) Thlalakna (Camera)     (j) Electric hmanga Mawsawla
   (k) Sa her sawmna (Mincer)  (l) Refrigerator
   (m) Television            (n) Video Player
   (o) Puansuk Khawl         (p) Fan, Ceiling/Portable
   (Washing machine)
(q) La phiar Khawl
(s) Vacuum Cleaner
(u) Radio
(w) Tape Recorder

(y) Motor:
   (i) Car
   (ii) Jeep
   (iii) Taxi
   (iv) Truck
   (v) Bus
   (vi) Van
   (vii) Scooter/Bike/Bicycle.

(r) Puan tah khawl
(t) Air Conditioner
(v) Sana lian, banga khai chi (Wall clock)
(x) Electric Light
Please encircle the letter corresponding to the correct answer.

1. a b c 2. a b c 3. a b c
4. a b c 5. a b c 6. a b c
7. a b c 8. a b c 9. a b c
10. a b c 11. a b c 12. a b c

13 & 14. Draw the diagram below and label it
21 & 22. Draw a labelled diagram of respiratory organs showing lungs, trachea, larynx and nose.
28 & 29 Draw a labelled diagram of the preparation of oxygen by heating Potassium Permanganate showing Oxygen gas, potassium permanganate, gas jar and source of heat.
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APPENDIX

NORTH-EASTERN HILL UNIVERSITY
DEPARTMENT OF EDUCATION
MIZORAM CAMPUS : AIZAWL

PROBLEM SOLVING ABILITY TEST (PSAT)
(Answer Sheet)

Ichhanna chu kual khung zel ang che.

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## Problem Solving Ability Test: Scoring Key

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19. I) OPIUM
II) HEROIN
III) CORRUPTION
IV) MANDRAX
V) LIQUOUR
VI) GAMBLING
VII) SMUGGLING
VIII) SUICIDE
IX) RAPE
X) THEFT

20. JAMES WATT - STEAM ENGINE
    MARCONI - RADIO
    RONALD ROSS - QUININE
    MADAME CURIE - RADIUM
    ROENTGEN - XRAY
    NEWTON - GRAVITATION.
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Source: Census of India Final Population Totals 1901-1981 (compiled)
APPENDIX - 12

PROGRESS OF EDUCATION IN MIZORAM

(1947 - 1986)

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### Admissions and Results of Matriculation Examination in the First Ten Years of Establishment of High Schools in Lushai Hills

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**Lunglei High School**

ADMISSION (Including Middle Section Class I - VI)

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