

PSET PLE 2006 EXTRACT

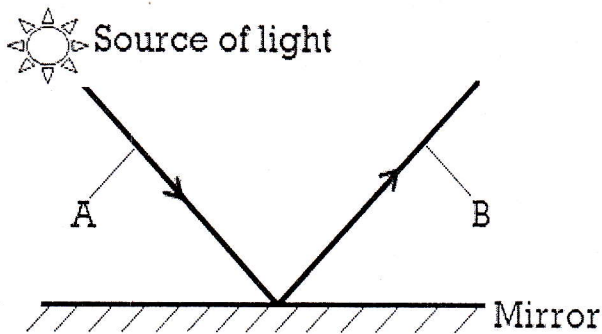
PUPIL'S COMPLETE INDEX NUMBER				
Province/City	District	Sector	School	Pupil
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SECTION A (50 marks)

1. What causes day and night?

2. Why are most windows of modern houses made of glasses?

3. Study the diagram below:



Name the rays marked;

- A -----
B -----

4. (a). Which of the two travels faster light or sound?

- (b). Does sound travel through water?

5. What would be the state of water if its temperature is decreased to below 0°C? -----
6. The mass of a substance is 9.0 g and its volume is 10cm³.
Calculate the density of the substance.

7. A person sinks into water in a lake. However, when a person is on a boat, the boat does not sink into the lake. Why?

8. (a). Why do people who live in hot deserts wear white clothes?

(b). Why are blankets good for covering ourselves during cold nights?

9. If pieces of iron have dropped into the sand, which simple material can you use to pick the iron pieces from the sand? -----

10. Why does a vacuum flask keep tea hot longer than an ordinary kettle? Give three reasons.

11. (a). Which is the source of energy that enables radios to produce sound?

(b). Which of the following materials can conduct electricity: copper, dry wood, plastic ruler, rubber, iron? -----

(c). Electricity can be dangerous. Name two accidents electricity may cause in a home.

12. Give examples of animals which breathe through.

The gills -----

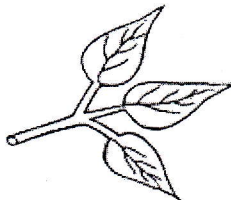
The skin -----

Lungs and skin -----

13. Study the leaves below and answer the questions that follow.



Leaf 1



Leaf 2

(a). Which of the above is a simple leaf?

(b). What is the name of the gas produced by leaves during photosynthesis?

14. Where in our bodies is blood filtered to remove wastes?

15. Each part of a plant has a particular role. What is the role of?

Roots _____

Stem _____

Flowers _____

Fruits _____

16. What are agents of pollination?

17. Cholera and dysentery are caused by microbes, germs.

Suggest three methods you can use to avoid catching these diseases.

18. (a). Define fertilization and implantation.

Fertilization

Implantation

(b). How many months does pregnancy last in a cow?

19. (a). What is the full name of HIV?

(b). Give three ways you can avoid contracting HIV.

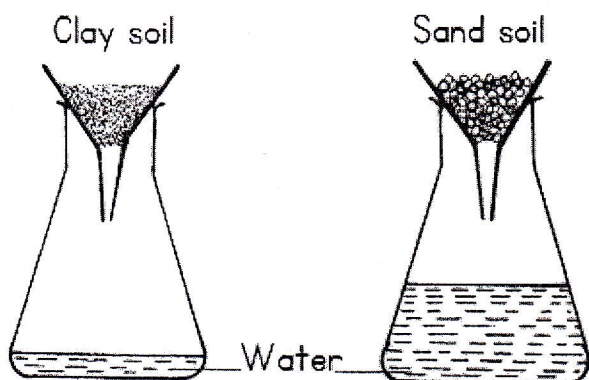
20. Give two uses of soil to man.

21. What is the advantage of human milk over cow's milk for feeding babies?

22. The skin is made up of three layers. Apart from epidermis, name the two other layers.

SECTION B (50 MARKS)

23. Equal volumes of sandy and clay soils were placed into containers as shown below. Equal volumes of water were poured into each soil type at the same time. After 10 minutes the volume of water collected are as shown in the diagram.



(a). Through which soil did the water drain faster?

(b). Give a reason for your answer.

(c). Why do the types of soil allow water to drain at different rates?

24. Below is a list of activities carried out by people in the environment.

Use the list to answer questions that follow

Fishing

Producing a lot of smoke in the factories

Draining swamps

Throwing polythene bags (udushashi) on the soil

Crop rotation

(a). Which activity is likely to decrease the amount of rainfall?

(b). Which activity is likely to spoil the fertility of the soil?

(c). Which activity is good for controlling crop diseases?

(d). Which activity is likely to cause pollution of the atmosphere?

25. (a). Give two reasons why a mushroom is not a plant?

(b). Give any two plants that reproduce in the same way like a mushroom.

26. (a). What is the use of hairs found in the nose of a human being?

(b). Name any one disease that attacks the respiratory system

(c). What happens to the diaphragm when we breathe:

(i). In? -----

(ii). Out? -----

27. (a). Give any two ways in which bacteria are useful to human beings.

(b). Give any two ways in which bacteria are dangerous to human beings.

28. (a). Give any three characteristics of living things.

(b). How are plants different from animals in the way they get their food?

29. (a). Why does blood move from the heart to the lungs before it moves round the body? -----

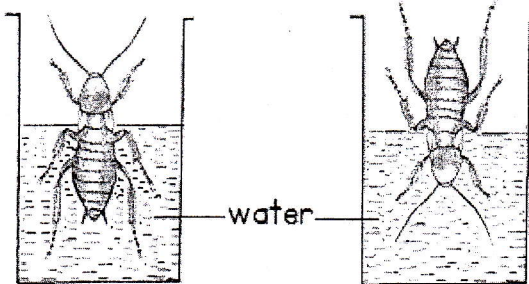
(b). Which viral disease attacks each of these types of blood cells?

(i). Red blood cells -----

(ii). White blood cells -----

(c). Apart from red and white blood cells, name the one other type of blood cells you know. -----

30. In the diagram below, two cockroaches were placed in water as shown below.



Cockroach A

Cockroach B

(a). Which cockroach died?

(b). Give a reason for your answer in part (a) above.

(c). In which way is the above insect shown in the diagram harmful to man?

(d). Give any other insect that causes harm similar to that of a cockroach.

31. (a). Give any two ways in which fish can be preserved.

(b). Which food value do we obtain from eating fish?

32. Match the items of group A with those of B below.

Group A

Heart

Kidneys

Skin

Lungs

Brain

Group B

Sensory organ

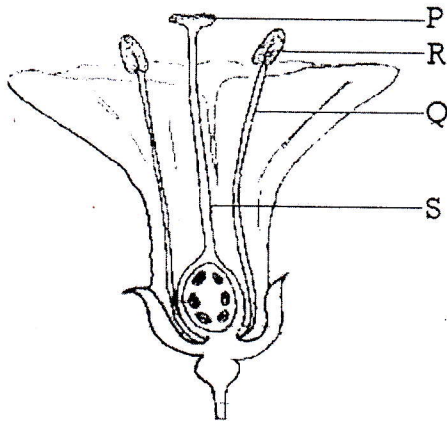
Memory

Carbon dioxide

Circulation of blood

Urine

33. The diagram below is of a hibiscus flower



(a). Name the parts marked with letters.

P -----

R -----

S -----

(b). What is the function of part Q?

(c). Which part receives pollen grains?

(d). How do we call the female and male parts of a flower;

(i). Male -----

(ii). Female -----

34. (a). Name one important vein that connects the liver to the ileum.

(b). What does the vein named above carry to the liver?

(c). Name any one disorder of the digestive system.
