

SCIENCE PLE 2012

CANDIDATE'S INFORMATION

Index number :

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Name :

Signature :

School name :

District name :

SECTION A: 40 MARKS

1. Give any one example of root tuber.

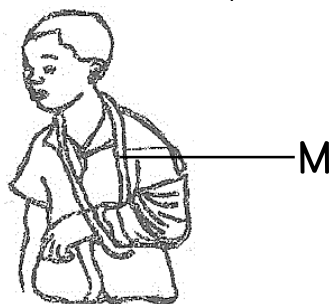
2. State one disadvantage of keeping finger nails long.

3. What is the importance of including calcium in chicken feed?

4. What is the use of a wedge as a simple machine?

5. Name the type of lens used to correct long sightedness.

The diagram below shows a person with an injury. Use it to answer question 6.

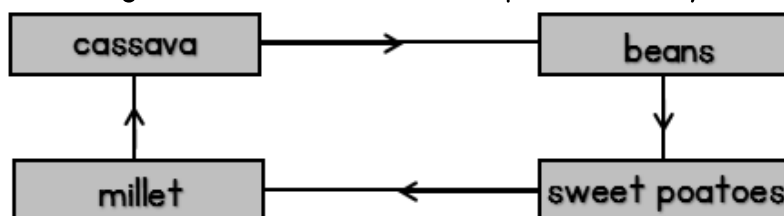


6. How useful is the structure marked M to the injured person?

7. Apart from mosses, give one other example of a spore bearing non flowering plant.

8. Name any one mammal that lives in water.
-
9. Give a reason why people keep cats in their homes.
-
10. Why does a farmer cut off the leaves of banana sucker before planting it?
-
11. Apart from pasteurizing, give any one way milk can be prevented from going bad.
-
12. Why is it important for husband and his wife to be treated together if they have got gonorrhea?
-
13. Why do farmers carry out de-beaking in poultry farms?
-
14. State any one habit which helps to promote oral health.
-
15. State one use of soil to earthworms.
-

The diagram below shows a crop rotation cycle.



16. What is the importance of beans in this cycle to the crops?
-
17. Which communicable disease in human affects both the skin and the skeletal system?
-
18. Apart from carbohydrates, name one other class of food that gives the body energy.
-
19. In which way is the sun important in the formation of rain?
-

20. State any one method used to dirty water clean.

21. How does a sweater help to keep a person warm during cold day?

The diagram below is of a head of a bird. Use it to answer question 22.



22. What does a bird with this type of beak eat?

23. Give any one effect of poor disposal of human wastes in the environment.

24. A part the egg stage, at what other stage of development is a housefly not active?

25. Why does a clay-made charcoal stove use less charcoal than a metallic one?

26. A part from production of egg (ova), mention one other use of the ovaries in the human body.

27. State one way in which a child gets natural immunity.

28. State the injury that results from tearing of muscles.

29. Which gas is used by food manufacturers for preserving drinks like sodas?

The diagram below is of a common animal. Use it to answer question 30.



30. Which disease does the above animal spread to humans?

31. Why are the legs of a person who has fainted raised higher than the head as a way of giving first aid?
-
32. What name is given to a place where seedling are grown before transplanting?
-
33. Which part of the human ear equalizes pressure in and outside the ear?
-
34. Name one other disease caused by fungi in humans apart from ring worm.
-
35. What class of food is digested in the stomach?
-
36. Give any one advantage of castrating farm animals.
-
37. In the space below, draw a simple diagram of a fibrous root system.
-
38. How are plastics and glass materials dangerous to soil?
-
39. Apart from liquids, name one other state of matter through which heat is transferred by convection.
-
40. In which human body organ does gaseous exchange take place?
-

SECTION B: 60 MARKS

41. a. Give any two examples of a physical change.

i. _____

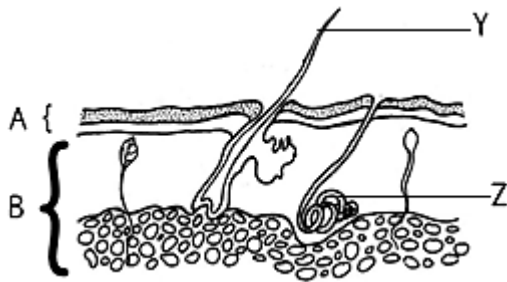
ii. _____

- b. State two characteristics of a chemical change.

i. _____

ii. _____

42. The diagram below is of a human skin. Use it to answer the questions that follow.



a. Name the layers A and B.

A _____
B _____

b. Give the function of the parts labeled Y and Z.

Y _____
Z _____

43. a. Name the two types of pollination in flowering plants.

i. _____
ii. _____

b. Write any two agents of pollination.

i. _____
ii. _____

44. a. Give any two disadvantages of keeping local breeds of poultry.

i. _____
ii. _____

b. Apart from getting money, give any two other ways a farmer benefits from keeping poultry.

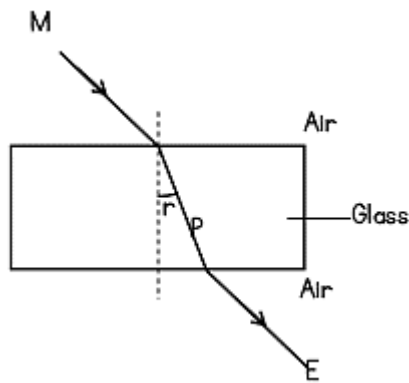
i. _____
ii. _____

45. Match each animal in A with the correct group to which it belongs in B.

A	B
Chameleon	mammals
Toad	birds
Bat	reptiles
Ostrich	amphibians

a. Chameleon _____
b. Toad _____
c. Bat _____
d. Ostrich _____

46. The diagram below shows how light passes through a glass block. Study and use it to answer question 46.



- a. Name the rays M and P.

M _____

P _____

- b. Name the angle marked r.

- c. Give one reason why ray P bends as shown in the diagram.

47. a. Give one reason why dehydration is dangerous to humans.

- b. In which way is oral Rehydration Solution (ORS) a good treatment for diarrhea?

- c. Apart from taking ORS, how else can one prevent dehydration?

- d. How can a person preparing ORS prevent it from contamination?

48. The table below shows source of food, the food nutrient in it and the related deficiency disease. Complete it correctly.

Source of food	Food nutrient	Deficiency disease
Fruits	vitamin C	_____
Beans	_____	kwashiorkor
_____	vitamin A	night blindness
Iodized salt	iodine	_____

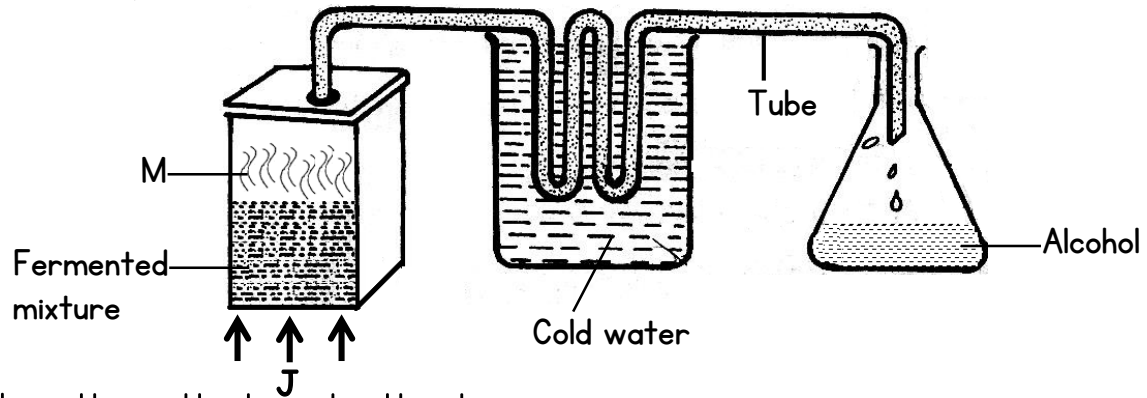
49. a. Which type of blood vessels returns blood to the heart?

- b. What is the function of valves in the blood vessels during blood circulation?

c. What type of blood is carried by most blood vessels with valves?

d. Give any one waste material carried by blood.

50. The diagram below shows one of the methods of preparing alcohol. Study and use it to answer question 50.



a. Name the method used in the diagram.

b. What do arrows labeled J represents?

c. Why is the tube passed through cold water?

d. What process forms M?

51. a. A part from ante-natal care, give two other ways of caring for pregnant women.

i. _____

ii. _____

b. In which one way should pregnant protect unborn babies from malaria?

c. Why are pregnant women advised not smoke?

52. a. Name the force that brings down all objects thrown up.

b. (i). When a piece of paper and rubber are dropped from the same height, which one reaches the ground first?

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

c. Why do some objects float on water?

53. a. State any two reasons why farmers thin their crop.

i. _____

ii. _____

b. Apart from thinning, give any two other ways farmers care for their crops.

i. _____

ii. _____

54. a. Name the type of joint found in each of the following parts of the human body.

– Shoulder _____

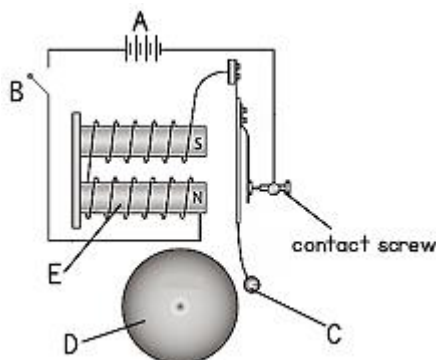
– Wrist _____

b. What advice would you give to a person to keep the skeletal system in the health working condition? (give two)

i. _____

ii. _____

55. Study the diagram of an electric bell below and use it to answer question 55.



a. Name the part marked A and C.

A _____

C _____

b. What will happen to E when B is closed?

c. How useful is part D on the electric bell?
