

SCIENCE PLE 2013

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 a swimming bird.

2. Name the animal product used in leather industry.

3. State any one property of matter.

4. Name the part of the human eye that works like the film in the Camera.

5. In which way is the message in the sign post below helpful to school children?

SAY NO TO SEX

6. Give any one way in which single fixed pulley is used a school.

7. Name the body organ which helps a person to know whether there is enough sugar in tea or not.

8. Give any one advantage of pruning trees.

9. Which method of heat transfer helps farmers to dry their harvested crops?

10. How does a fish benefit from its slippery body?

11. In which way does use of biogas conserve the environment?

The diagram below shows garden tool. Use it to answer questions 12 and 13.



12. Name the garden tool above.

13. How is the tool above important to farmers?

14. Which deficiency disease is caused by lack of vitamin D in children's diet?

15. Why is the water obtained through filtration not necessary safe for drinking?

16. What plant system does the plumule make when it grows?

17. How does leaching reduce soil fertility?

18. Why is it advisable to leave the pit of a VIP latrine open?

19. Name the cattle disease whose sign is a swollen and painful udder.

20. In which part of the female reproductive system does fertilization take place?

21. Why is the left side of the heart able to pump blood to most body parts?

22. State any one way in which trees are able to reduce air pollution.

23. In the space provided below, draw a lens used to correct short sightedness.

24. How is a safety pin in a First-Aid kit important?

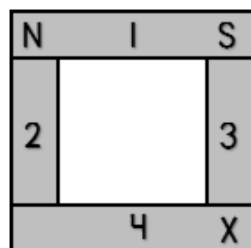
25. In which type of change are properties of the substance formed permanently different from those of the original one?

26. How is the function of stomata in a leaf similar to that of gills in a fish?

27. Which component of soil is used by plants to make food?

28. Which structures enable the trachea to remain open all the time?

29. Four bar magnets marked 1, 2, 3 and 4 were placed next to each other as shown below. They attracted each other. Name the pole of magnet 4 marked with letter x.



30. Apart from brushing, how else can dental caries be prevented?

31. State any one way in which friction in moving parts of a machine can be reduced.

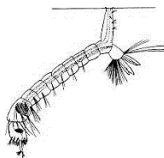
32. Give any one way in which yeast is useful to people.

33. A part from making food, mention one other use of leaves to plants.

34. State any one characteristic of the images formed by plane mirrors.

35. Why do the people installing electricity wear rubber gloves?

The diagram below is of mosquito larva. Use it to answer questions 36 and 37.



36. Name the mosquito which develops from such a larva.

37. What disease does the mosquito you have named above transmit to human beings?

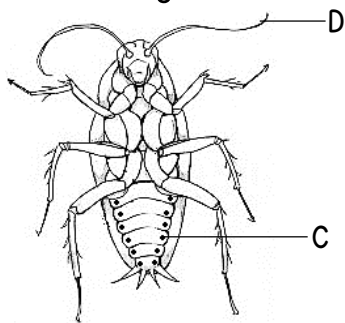
38. How is the propagation of Irish potatoes different from that of sweet potatoes?

39. A part from running windmills, give one other way wind is used as an energy resource.

40. How do the silvery walls of a vacuum flask reduce heat loss?

SECTION B: 60 MARKS

41. The diagram below shows an insect. Use it to answer the questions that follow.



a. Name the parts marked C and D.

C

D

b. State the function of part marked D.

c. Why would an insect die when the whole of its abdomen is dipped in oil?

42. a. Apart from the lack of conditions necessary for germination, give any two other factors that can make a seed fail to germinate.

i. _____

ii. _____

b. Write down any two ways farmers can control pests in the garden without using chemicals.

i. _____

ii. _____

43. a. Give any two advantages of modern beehive.

i. _____

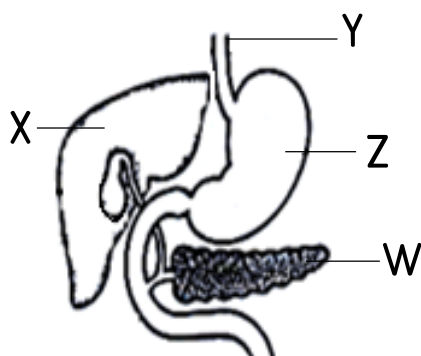
ii. _____

b. Write down two things a bee-keeper should consider before setting up beehives.

i. _____

ii. _____

44. The diagram below is part of the human digestive system. Use it to answer the questions that follow.



a. Name the parts marked Y and W.

Y _____

W _____

b. State the function of the part marked Z.

c. Give any one disease that affects the part marked X.

45. Match the disease in list A with the signs and symptoms in list B.

List A

Polio

Measles

Tetanus

Diphtheria

List B

swollen neck

stiffness of muscles

paralyzed tissue

skin rash

- a. Polio _____
- b. Measles _____
- c. Tetanus _____
- d. Diphtheria _____

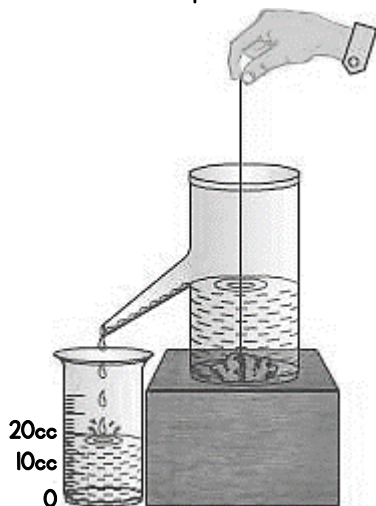
46. a. Give any two ways in which drug dependence can affect an individual.

- i. _____
- ii. _____

b. State two ways in which an individual can avoid drug dependence.

- i. _____
- ii. _____

47. An irregular object was lowered into an overflow can A containing water. The water it displaced was collected in container B as shown below.



a. What is the volume of the irregular object?

b. Calculate the density of the irregular object if its mass is 60g.

48. The table below lists of animals. Use it to answer the questions that follow.

P	Q	R
Toad	Chameleon	Cow
Newt	Snake	Monkey
Frog	Lizard	Rat

a. Which characteristic is common to all the animals in the table?

b. How is the reproduction in the animals in list P similar to those in list Q?

c. Which list has warm blooded animals?

d. Why would you place a tortoise in list Q?

49. a. Name any one organism that makes fresh meat go bad.

b. State any three ways of preventing fresh meat from going bad.

i. _____

ii. _____

iii. _____

50. a. Name the human body organ where each of the following takes place.

– Filtration of blood

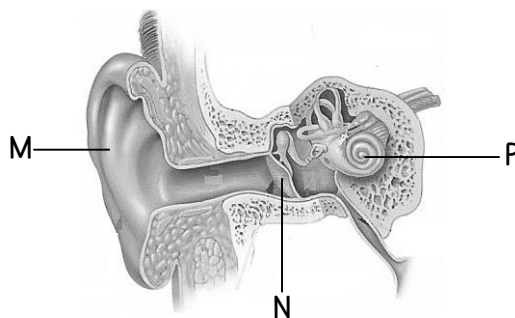
– Blood gets oxygen while carbon dioxide is removed

b. Give the use of the following components of blood in the body.

– White blood cells

– Blood platelets

51. Study the diagram of the human ear below and use it to answer the questions that follow.



a. Name the parts marked M and N.

M _____

N _____

b. Give the function of the marked P

c. Use letter B to show the part of the ear responsible for balancing the body.

52. a. Name any two water-borne diseases.

i. _____

ii. _____

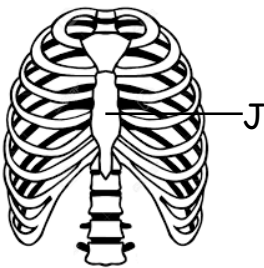
b. In which two ways can water-borne diseases be prevented in the community?

i. _____

ii. _____

53. The diagram below shows part of the human skeleton. Use it to answer the questions that follow.

a. Name the part marked J.



b. State any two delicate body organs protected by the part of the skeleton shown.

i. _____

ii. _____

c. How is the part of the human skeleton shown above used during breathing out?

54. a. Write down any two activities that can be done by an individual to promote personal hygiene.

i. _____

ii. _____

b. State two ways community members can promote sanitation in their area.

i. _____

ii. _____

55. Arrange the parts an electric circuit below by drawing to show a complete circuit.

