

AITEL JOINT MOCK EXAMINATIONS

Primary Leaving Examinations

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No.

Random No.						Personal No.		

Candidate's name:

Candidate's Signature:

School Random No.

District No:

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Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections **A** and **B**. Section **A** has **40 questions** and **section B** has **15 questions**. This paper has **12 pages** printed altogether.
3. Answer **all** questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil will **NOT** be marked except drawings and diagram.
5. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to loss of marks. 6. Do not fill anything in the table indicated **"For examiners' use only"** and the boxes inside the question paper.

FOR EXAMINERS'

USE ONLY

Qn. No.	MARKS	EXR'S No.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION A (40 MARKS)

1. Give one example of a legume.

2. What is the use of a trowel to a crop farmer?

3. Give one reason why a spider is not an insect.

4. How is a worker bee able to carry pollen on its body?

5. What does a mushroom use to reproduce?

6. What is the danger of not brushing your teeth regularly?

7. Why is copper called a good conductor?

8. How is chlorophyll important in the process of photosynthesis?

The diagram shows a foot of a bird. Use it to answer questions 9 and 10.



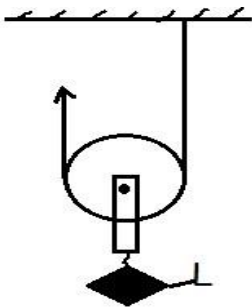
9. Name an example of a bird with this foot.

10. How useful is the structure of this foot to the bird?

11. How does a vacuum prevent heat loss in a flask?

12. What do we call a condition when a person cannot see objects that are far from him?

The diagram shows a type of a pulley system.



13. How does it help to make work easy?

14. Which substance in the ear prevents dust from entering the organ?

15. Apart from charcoal and timber, name one practice that is a danger to trees.

16. How does a poultry farmer stop cannibalism among his birds?

17. Give an example of a stem tuber.

18. How is the reproduction of a housefly different from that of a grasshopper?

19. Which type of plants have a parallel leaf venation?

20. What is the use of synovial fluid in a joint?

21. Which organ in the body allows exchange of gases in blood?

22. What is the use of a urinary bladder?

23. What is the use of ORS to a sick child?

24. Why does a piece of stone sink in water?

25. Which immunisable disease paralyses limbs of human beings?

26. What causes evaporation in a water cycle?

27. Which activity of sanitation will reduce the spread of malaria in a community?

28. What is the danger of water snails to human beings?

29. What is the use of prop roots on a maize plant?

30. What type of change needs heat to take place?

31. Give one reason why a mother must breastfeed her baby?

32. How is a bat able to avoid hitting a rock at night?

33. Which practice of cultivation reduces soil erosion in hilly areas?

34. What is passive smoking? _____

35. Why should garden tools be kept in a dry place?

36. Why is human skin called an excretory organ?

37. Which part of a living house allows carbon dioxide out?

38. What is the use of a nostril to a fish?

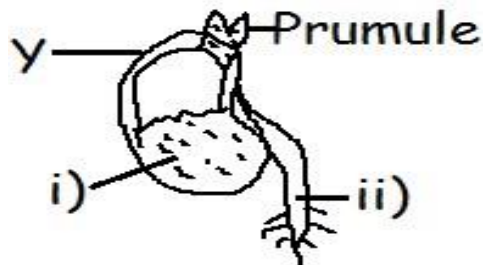
39. Which blood vessels have valves?

40. How would the seed below be dispersed?



SECTION B (60 MARKS)

41. The diagram shows part of a germinating seed. Use it to answer the questions that follow.



(a) Name the parts:

i) _____

ii) _____

(b) What is the function of part Y?

(c) Name one condition that would make a seed fail to germinate.

42. Name the weather instrument in A with what they do in B.

(A) Instrument

(B) Function

Windsock

atmospheric pressure

Rain gauge

strength of wind

Sixth's thermometer

temperature

Barometer

how much it has rained

i) Windsock: _____

ii) Rain gauge: _____

iii) Sixth's thermometer: _____

iv) Barometer: _____

43. (a) Give the causes of these conditions in human body.

i) Kwashiorkor: _____

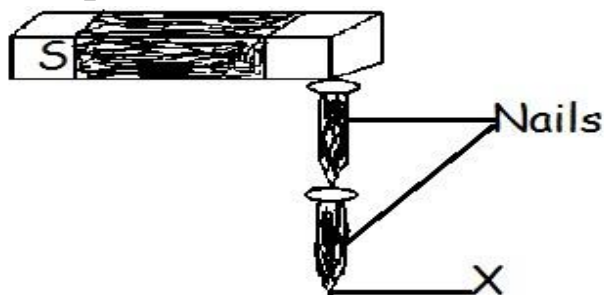
ii) anaemia: _____

(b) Apart from refrigeration, give two other ways of conserving fish.

i) _____

ii) _____

44. **The diagram shows a method of magnetization. Study it and answer the questions.**



(a) What is the method called?

—

(b) What would happen if point X of the nail is put at pole S?

(c) Name one activity that would make a magnet lose its magnetism.

(d) Which part of a radio uses a permanent magnet?

45. (a) What are energy resources?

(b) What is the major source of energy on earth?

(c) Give two ways by which water can act as a resource.

i) _____

ii) _____

46. (a) Name the two types of pollination in flowering plants.

i) _____

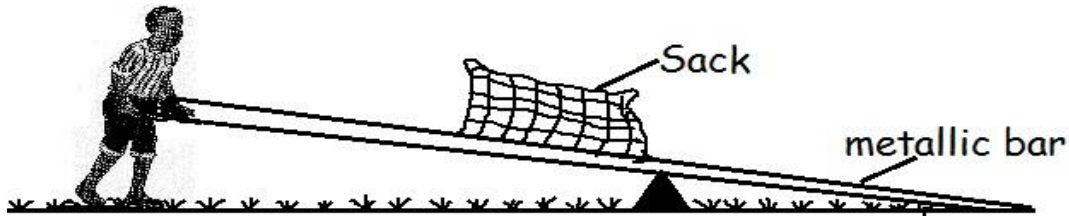
ii) _____

(b) What s the use of each of the following during pollination?

(i) anthers: _____

(ii) stigma: _____

47. The diagram shows a boy using a metallic bar to raise a bag of coffee. Use it to answer the questions.



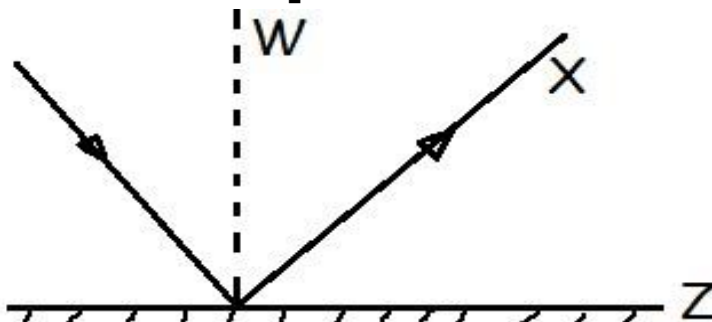
(a) Which type of machine is he using?

(b) What can he do to lift the sack more easily?

(c) Name the force that slows movement in moving parts of a machine.

(d) How is the force in (c) useful in our daily life?

48. The diagram shows a ray of light on a smooth shiny surface Z. Use it to answer the questions that follow.



(a) Name part X and W.

i) X: _____

ii) W: _____

(b) Name an instrument where the above principle is used.

(c) Use letter “T” to show the angle of reflection.

49. (a) What is First Aid? _____

(b) Give two reasons why an injured person may need first aid.

i) _____

ii) _____

(c) How is a splint useful to a person with fractured lower leg?

50. (a) What is teenage pregnancy? _____

(b) Apart from failure to have safe delivery, give two other dangers of teenage pregnancy.

i) _____

ii) _____

(c) How can a school prevent teenage pregnancies?

51. (a) How are the following important to a cattle farmer?

i) Castration: _____

ii) Deworming; _____

(b) Give two systems used in grazing cattle.

i) _____

ii) _____

52. (a) Give two ways of making water safe for drinking.

i) _____

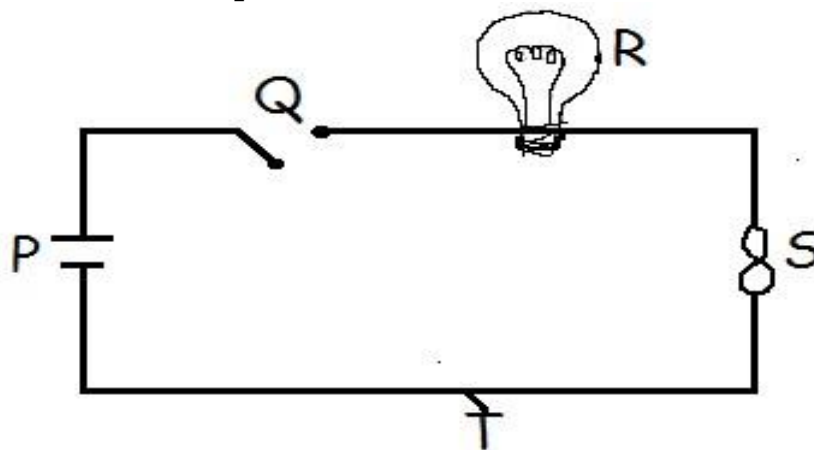
ii) _____

(b) Write any two ways by which water can become impure.

i) _____

ii) _____

53. The diagram shows a simple electric circuit. use it to answer the questions.



(a) Name the part T and R.

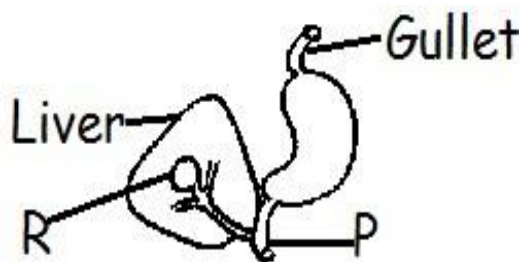
i) T: _____

ii) R: _____

(b) If Q is closed, give one reason why R would not light.

(c) How is S useful in the above circuit?

54. Below is part of the human alimentary canal. Study it to answer the questions.



(a) Give the name and function of part R.

i) Name: _____

ii) Function: _____

(b) Where does food go after P?

(c) Give one way of preventing constipation.

55. The government of Uganda has stopped the use and manufacture of polythene bag.

(a) Give two reasons why this was done.

i) _____

ii) _____

(b) Apart from controlling the spread of crop pests, give two other uses of mulching a garden.

i) _____

ii) _____

END