



AITEL EXAMINATION

PRE MOCK EXAMINATIONS

SET 1 2023

INTEGRATED SCIENCE FOR P.7

Time allowed: 2 hours 15 minutes

Name:

Stream :

Read the following instructions carefully:

1. The paper has two sections: **A** and **B**.
2. Section **A** has 40 questions (40 marks)

3. Section **B** has 15 questions (60 marks).

4. Answer **all** questions. All answers to both Sections **A** and **B** must be written in the Spaces provided.

5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.

6. Unnecessary alteration of work may lead to loss of marks.

7. Any handwriting that cannot easily be read may lead to loss of marks.

8. Do not fill anything in the boxes. They are for examiners' use.

FOR EXAMINERS' USE ONLY		
Qn No.	MARKS	SIGN.
1 – 10		
11-20		
21-30		
31- 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 – 55		
TOTAL		

SECTION A (40 MARKS)

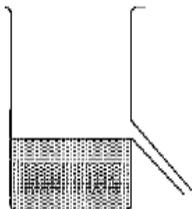
1. Name the mosquito that transmits Dengue fever to human beings.

2. State one condition that recommends farmers to carry out culling in poultry.

3. In which way are stomata important during the process of photosynthesis?

4. State the direction in which a freely suspended magnet will point while at rest.

Below is an equipment used to find volume of objects. Study it carefully to answer questions 5 and 6.



5. Name the equipment shown above.

6. Give any other container that works like the one shown above.

7. State the property of air demonstrated by a farmer spraying crops using chemicals.

8. How do suture joints differ from the rest of the joint in the human body?

9. Name any one device that can be used to reproduce sound stored using solfa notation.

10. Mention down one primary sex characteristic that takes place in adolescent girls.

11. State the amount of salt needed to prepare oral rehydration solution (ORS).

12. How can animals as renewable resources be replaced in the environment?

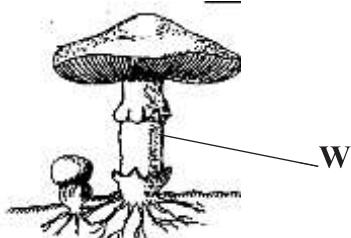
13. Mention down one crop growing practice done by farmers to remove excess branches and buds on a plant.

14. State the importance of putting an object in the mouth of a convulsing person.

15. Why is the eggshell able to allow the exchange of useful materials in a fertilized hen eggs?

16. Give one way bacteria are useful to crop farmers.

The diagram below shows a mushroom. Study it carefully to answer question 17 and 18.



17. Name the part labelled W.

18. *Using an arrow and letter K indicated the part on the diagram above that is used in reproduction.*

19. How is a lactometer useful to a dairy farmer?

20. State one factor that may fail a bulb to produce light when the switch is closed.

21. Write down one activity done by a bee keeper to harvest honey from the hive after opening the hive.

22. Why is water obtained by filtration not recommended for drinking?

23. How is a bar magnet useful to a person planning to use a six's thermometer to measure temperature?

24. Name the part of a VIP latrine that uses convection currents to perform its function.
-
25. State one condition that recommends the use of bottle feeding in babies below one year.
-
26. How are red blood cells able to transport oxygen around the body?
-
27. Identify the method of making local alcohol that involves the use of yeast as a catalyst.
-
28. How should a hutch be constructed to prevent rabbits from making burrows into the ground?
-
29. What structures on a gecko enables it to walk upside down on ceilings?
-
30. How is a nursery bed able to protect seedlings against bad weather conditions?
-
31. Why should a drying rack be raised one metre above the ground?
-
32. Give one way in which a bicycle dynamo can be able to produce electricity with high voltage.
-
33. Which method is used to separate husks from cereal grains?
-
34. Name the deficiency disease with the following signs; bleeding gums, loose teeth, skin rash and poor healing of wounds.
-

Below is a garden tool. Study and use it to answer questions 35 and 36.



35. Name the garden tool above.
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36. State one sue of the garden tool above to farmer.

37. How do vaccines help to prevent measles in babies?

38. State the biological change that enables a chameleon to catch its prey.

39. Give any one cause of weathering apart from acidic rains.

40. How does a fish benefit from its streamlined body?

SECTION B (60 MARKS)

41. *In the table below, part a shows organisms and part B shows defence mechanisms used by the same organisms but in a wrong order.*

Part A	Part B
<i>Porcupine</i>	<i>Prickly hairs</i>
<i>Skunk</i>	<i>Camouflaging</i>
<i>Caterpillar</i>	<i>Spines</i>
<i>Chameleon</i>	<i>Bad smell</i>

Select a defence mechanism from part B to match the organism below.

a) Porcupine _____

b) Skunk _____

c) Caterpillar _____

d) Chameleon _____

42. a) What is weaning?

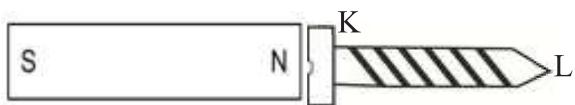
b) State any one advantage of breast feeding to;

i) a baby _____

ii) a mother _____

c) Why is it advisable for a pregnant woman to eat food rich in proteins?

43. *In the diagram below, when the nail was brought nearer to the magnet, it was attracted as shown. Use the diagram to answer questions below.*



- a) How does the nail get magnetized?

- b) Name the pole marked L.

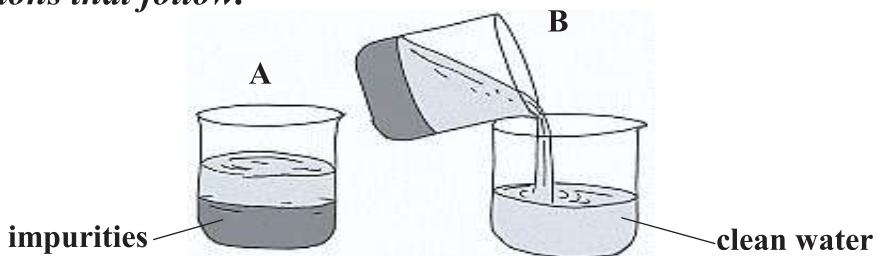
- c) Which other method can be used to magnetise the nail without using a magnet?

- d) Name the type of magnet in (c) above.

44. a) Mention down any two activities carried out during a health parade.
i) _____
ii) _____
b) Why should health parades be carried out in every school?

- c) State one element of Primary Health Care promoted on a school health parade.

45. *The diagram below shows a method of making water clean. Study and use it to answer questions that follow.*



- a) Name the method of obtaining clean water shown above.

- b) Why is clean water obtained by the above method not good for drinking?

c) Give any two activities at home where the above clean water can be used.

i) _____

ii) _____

46. a) Write down any two characteristics of fish.

i) _____

ii) _____

b) State any one function of each of the following parts to a fish.

i) swim bladder _____

ii) lateral line _____

47. a) Which bone joins the pelvis and tibia?

b) Apart from movement, give any other two functions to the human skeleton.

i) _____

ii) _____

c) What is the function of synovial fluid in the body?

48. a) Mention any one reason why copper wires are commonly used to distribute electricity from one point to another.

b) Why do people who work on electric wires wear rubber gloves?

c) Give any one use of each of the following;

i) a switch _____

ii) a fuse _____

49. a) Name the type of accident that involves the following applications.

i) tying splints around the broken part _____

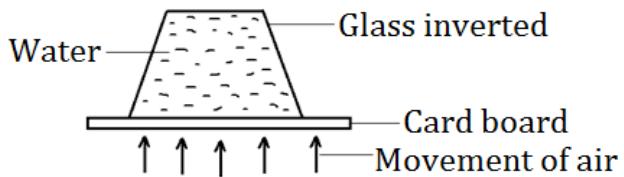
ii) dipping the injured part in clean cold water _____

b) Give any two reasons why first aid should be given to casualties.

i) _____

ii) _____

50. *The diagram below is of a property of air. Use it to answer questions that follow.*



a) What property of air is shown above?

b) Why is the card board used in the above experiment?

c) State two applications of the property of air above in our daily life.

i) _____

ii) _____

51. a) What two pieces of advice would you give to a person wishing to construct a pit latrine at his home?

i) _____

ii) _____

b) Give any one characteristic of a ventilated improved pit latrine.

c) Give any one reason why people should use latrines/toilets properly.

52. a) Give any one danger to a person who gets used to taking drugs of dependency.

b) Suggest any two reasons why it is not advisable to buy drugs from local shops.

i) _____

ii) _____

c) Name any one drug that is commonly abused in Uganda.

53. a) Give any two examples of fungi.

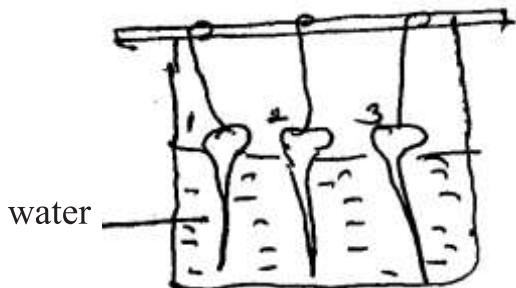
i) _____

ii) _____

b) How do most fungi reproduce?

- c) Give one way in which fungi are different from ferns.
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54. *Nails were placed in water as indicated below for one week. Use the information to answer the questions that follow.*



Note:

Nail 1 was painted

Nail 2 was not painted

Nail 3 was not greased

- a) Which of the nails above will have changed its colour overnight?
-

- b) What will grease do in nail 3 above?
-

- c) Why are metallic objects painted?
-

- d) Which nail will remain unaffected?
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55. *Study the table below and answer questions that follow.*

<u>A</u>	<u>B</u>
Tilapia	Rat
Frog	Goat
Crocodile	Lion
Dove	Whale

- a) What is a similarity in the way animals in list A reproduce?
-

- b) To which class of animals do these in list B belong?
-

- c) In which way is a tilapia in list A similar to a whale in list B?
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- d) What is common about animals in list A and B?
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