WAKISO UNITED SCHOOLS ACADEMIC ALLIANCE (WUSAA)

JOINT PLE MOCK EXAMINATIONS -2022

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.	Random No.						Personal No.		

Candidate's Name: ……

Candidate's Signature: ……..

School Name: …… Stream: ……

Read the following instructions carefully:

1. This paper has two sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions.
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be allowed.
4. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to **loss of marks.**
5. Do **not** fill anything in the table indicated: **"For Examiners' use only"** .

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

Contacts: 0702 464568/ 0752 723747/ 0787 843131/ 0706 118356

SECTION A (40 Marks)

1. Name any **one** living component of the environment.

_____

2. State the difference between melting and sublimation as used in heat energy.

_____

_____

3. Mention any **one** characteristic of arthropods.

_____

4. Name any **one** deficiency disease which affects the musculo-skeletal system.

_____

5. How is a blubber layer useful to a sea mammal?

_____

6. Name the type of compound leaf illustrated below.

_____

7. How does mulching keep moisture in the soil?

_____

8. State any **one** effect of heat on matter.

_____

9. Mention any **one** functional difference between veins and arteries.

_____

_____

10. State any **one** disorder of a digestive system.

_____

11. Why is **BCG** vaccine administered at birth?

_____

12. How is rainbow formed?

_____

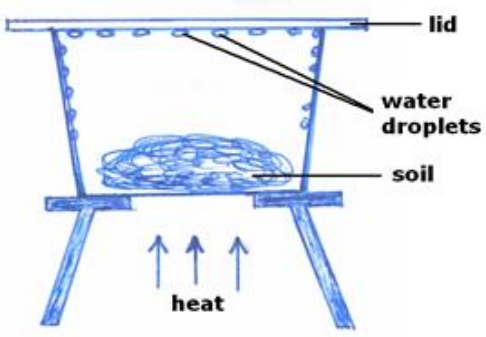
13. Name any **one** source of food in the environment?

_____

14. Mention any **one** factor which affects the speed of sound.

_____

15. What does the experiment below show about soil?



_____

16. Mention **any one** sign of a simple fracture.

17. Identify the process in plants which is similar to sweating in humans.

18. Cite any one antenatal care services you know.

19. How are the root nodules useful to the leguminous plants?

20. Which component of air is decreased in the atmosphere during the process of photosynthesis?

*The diagram below is of a tooth. Use it to answer questions **21**.*

21. State the function of the above tooth.

22. Why is the dry season the best time for shearing of sheep?

23. Mention any one primary sex characteristic in both boys and girls adolescents.

24. Which form of energy is stored in a dry cell?

_____

25. Mention any **one** cause of dehydration among infants.

_____

26. Identify the type of cattle whose body conformation is drawn below.

_____

27. State any **one** reason why farmers thin their crops.

_____

28. Mention any **one** method of applying fertilizers in the garden.

_____

29. Mention any **one** example of a harmful fungi in the environment.

_____

30. State **any one** factor that may call for caesarian operation as a form of delivery in woman.

_____

31. How is a micropyle useful to a germinating bean seed?

_____

32. Mention any **one** example of a percussion musical instrument.

33. Mention any **one** example of stem tuber crop.

34. Write down **one** importance of reproduction to living things.

35. State any **one** characteristic of a physical change.

36. Which vector spreads relapsing fever to people?

37. Give any **one** example of an egg laying mammal.

38. How is a first aid box useful to a first aider?

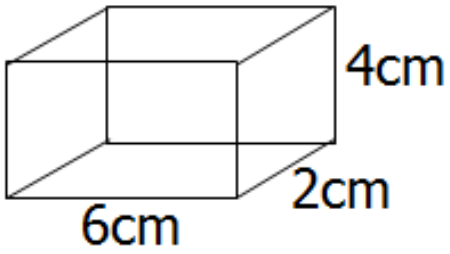
39. Mention any **on**e cause of teenage pregnancy among girls.

40. Name the device used by the blind people to dodge obstacle on their way.

SECTION B (60 Marks)

41. If the mass of the cuboid below is **48g**. Find the density of the cuboid.

(4 marks)



42. a) In which **two** ways are plants used as energy resources?

(i) _____

(ii) _____

b) Suggest **two** methods of harvesting trees in Agroforestry.

(i) _____

(ii) _____

43. a) Name any **one** authorized place to get medical drugs in case you need them.

_____

b) Geoffrey was suffering from malaria and the health worker gave him coatem prescribed (4×2). State any one factor the health worker based on to prescribe Coatem tablets to Geoffrey.

_____

c) According to the above information, how often should Geoffrey take the medicine?

_____

d) Why should drugs be kept out of reach of children?

_____

44. A boy stood in front of a wall and clapped his hands. After **3** seconds, he heard the same sound from the wall.

a) What name is given to the sound heard after **3** seconds?

_____

b) How was such a sound produced?

_____

c) Mention **one** mammal that makes use of the above sound to move.

_____

d) Name any **one** material that can be put in theatre halls to absorb the sound you have named in (a) above.

_____

45. a) How do we call the finger -like structures found in the ileum?

_____

b) Name the digestive enzyme found in saliva.

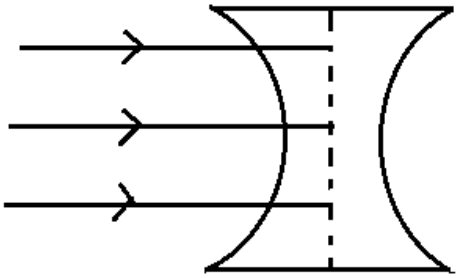
_____

c) Name **two** types of digestion.

(i) _____

(ii) _____

46. The diagram below shows **a lens**. Use it to answer the questions that follow.



a) Name the type of lens shown above.

_____

b) ***Complete the light rays through the lens above***.

c) Which eye defect is corrected by the above lens?

_____

d) Besides the eye defect in (c) above, name any other defect.

_____

47. a) Give any **two** examples of dairy breeds of goats.

(i) _____

(ii) _____

b) Identify **one** disadvantage of tethering method of rearing goats.

_____

c) Which practice in goat keeping controls internal parasites?

_____

48. a) Name the type of chicken reared for egg production.

_____

b) State **any one** way of increasing egg production on our poultry farms

_____

c) Write down **two** advantages of keeping farm records on a poultry farm.

(i) _____

(ii) _____

49. The table below shows immunization sites, diseases and vaccines administered. Study and complete it correctly.

Disease	**Vaccine**	**Administration and site**
_____	BCG vaccine	Injection on the right upper arm
Measles	Measles vaccine	_____
Diphtheria	_____	Injection on the left upper arm
Hepatitis B	_____	Injection on the left upper thigh

50. a) Why are biceps and triceps called antagonistic muscles?

_____

b) What happens to each of the following muscles when the arm is straightened;

i) biceps? _____

ii) triceps? _____

c) Apart from feeding babies on food stuffs rich in **Vitamin D**, how else can rickets be prevented?

_____

51. a) What is the difference between heat and temperature?

_____

_____

b) Mention any **two** importance of heat transfer by conduction in the environment.

(i) _____

(ii) _____

c) Why is the handle of a frying pan made either a wood or plastic?

_____

52. **Match sensibly**.

List A	**List B**
Vectors	**Germs**
House fly	Trypanosoma
Female anopheles mosquito	Filaria
Tsetse fly	Plasmodia
Culex mosquito	Chlamydia

Correct order

	Vector	**Germs**
i)	Housefly	_____
ii)	Anopheles mosquito	_____
iii)	Tsetse fly	_____
iv)	Culex mosquito	_____

53. a) Mention any **two** examples of wading birds.

(i) _____

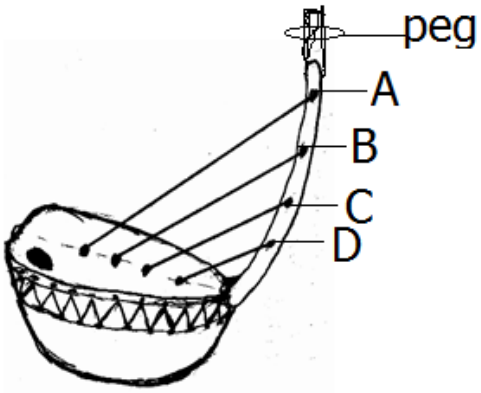
(ii) _____

b) State any **two** reasons why some birds are able to fly.

(i) _____

(ii) _____

54. The diagram below is of **a musical instrument**. Use it carefully and answer the questions that follow.



a) Name the group of musical instrument drawn above.

_____

b) Which strings will produce;

i) High pitch of sound _____

ii) Low pitch of sound _____

c) How can the pitch of sound be produced by the musical instruments above be changed?

_____

55. a) How is melanin found in the malpighian layer of the human skin important?

_____

b) State any **one** way in which the human skin regulates the body temperature during;

(i) Cold days.

_____

(ii) Hot days.

_____

d) Give any **one** way of caring for the human skin.

_____