



DIVINE EDUCATION CENTRE
SPECIAL PLE EXAMINATION ITEM $\frac{6}{6}$

2024

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

District ID 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

Questions **1** to **40** carry one mark each

- 1- Name the method of making alcohol that involves the action of yeast.

- 2- State any one responsibility of a first aider when giving first aid.

- 3- Which immunisable disease has the following signs; runny nose, skin rash, dry cough

- 4- How does wringing speed up drying?

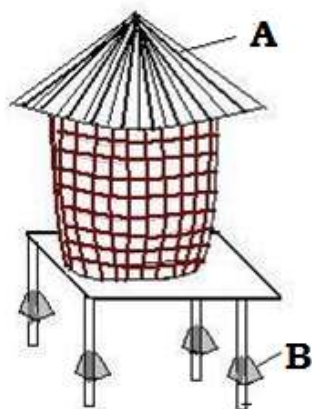
- 5- Paul is 45 years. What set of teeth does Paul have?

- 6- How is a tendon different from a ligament?

- 7- A P.5 pupil wanted to find the volume of an irregular object. What method can the pupil use?

The diagram below shows a storage facility. Use it to answer questions

8 – 9



- 8- Name the part marked B

- 9- How is part marked A important in the above storage facility?

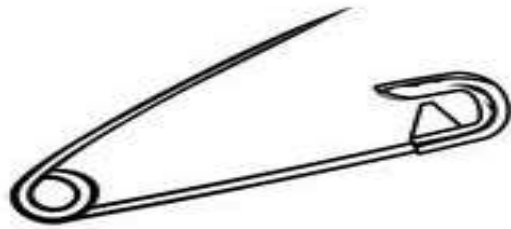
10- What would happen to a bird if all its quill feathers are removed?



11- How are suckers important to a tapeworm?

12- How are itehmites dangerous to human health?

Use the diagram below to answer questions 13 and 4



13- Name the first aid material above.

14- How is the above material useful when giving first aid?

15- What skeletal disorder leads to deformation of bones?

16- State the danger of pouring chemicals like paraffin in latrines.

17- How does painting prevent metals from rusting?

The diagram below shows a bell. Study it and use it to answer questions 18 and 19



18- To which group of musical instrument does the above instrument belong?

19- Name any one factor that affect the speed of sound produced by the above instrument.

20- How is the formation of umbra different from penumbra?



21- Name any one way of preventing rabbit diseases without using drugs.

22- What under condition do enzymes in the stomach work?

23- Why is it advisable for a breast feeding mother to take plenty of fluids?

24- Why is it important for p.6 pupils to manage body changes?

25- How does rusting affect magnets?

26- Name any one way of controlling mosquitoes at the adult stage.

27- Mention any one way typhoid is spread in the community.

28- A boy is sitting 3metres away from the charcoal stove, how does heat from the charcoal stove reach the body?

29- In which one way can the volume of blood be increased in the body?

30- How does exhalation affect the ribs?



31- Name any one condition that prevents the breeding of bacteria.

32- State the behavior of a leaf when placed in water.

33- How does a sweater help to keep a person warm during cold days?

34- How is the function of anthers in flowers similar to testes in humans?

35- How is washing the udder and teats important during milking?

36- Write down any one cause of short sightedness.

37- Which immunisable disease is controlled by using AstraZeneca?

38- Name any one crop growing practice that controls weeds and pests.

39- How are animals as renewable resources replaced in the environment?

40- How is the function of fleshy leaves different to foliage leaves in an onion?



SECTION B: 60 MARKS

Questions **41** to **55** carry four marks each

41- Owere's body temperature rose to 40°C.

(a) Name any one disease that can cause the above.

(b) Calculate Owere's temperature in Fahrenheit scale (2marks)

(c) What first aid can you give to Owere?

42- (a) What is meant by the term silting?

(b) How does silting lead to flooding?

(c) Write down any two natural causes of environmental degradation

(i) _____

(ii) _____

43- Arrange the following steps to obtain salt mixed with sand correctly.

(i) Filter to remove sand

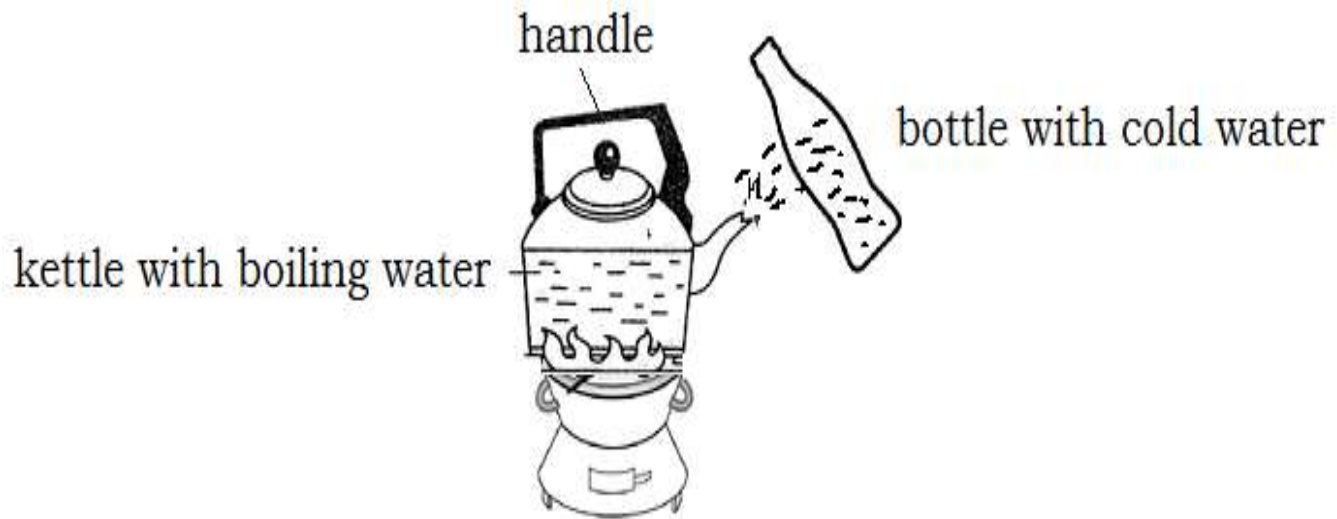
(ii) Add water in the container and stir to dissolve salt.

(iii) Carry out evaporation to dryness

(iv) Collect the mixture of salt and sand in a container.



44- Use the diagram below to answer questions that follow.



(a) Name the process shown above?

(b) How is the charcoal stove important in the above process?

(c) What does a bottle with cold water represent on earth?

(d) Why is the handle of the kettle made up of plastic?

45- (a) Name the method of soil formation that involve the action of bacteria.

(b) Apart from bacteria, name any one other group of organisms that can be used in the above named method in “a”

(c) In which two ways can farmers improve soil fertility without using fertilizers?

(i) _____

(ii) _____

46- Use the diagram below to answer questions that follow.

A- Diagram of cassava plant

B- Diagram of carrot plant



(a) Identify the tuber crop marked A

(b) To which group of tuber crops does crop A and B belong?

(c) How is crop marked B propagated?

(d) Name the food value obtained from eating the above crops.



47- (a) Tadeo's wife has wounds on the nipples. What type of feeding would you recommend Tadeo's wife to use?

(b) Apart from having wounds on the nipples, state any other two conditions that can lead to the type of feeding in "a" above.

(i) _____

(ii) _____

(c) Why are babies recommended to feed on foods rich in proteins?

48- (a)What name is given to the special muscles of the heart?

(b)To which body system does the heart belong?

(c)How do muscles help in body movement?

(d) Name any one practice that promotes proper working of the heart.

49- (a) In the space provided, draw and name prop roots. (2marks)

(b)Give the group of annual crops that have prop roots.

(c)How are prop roots important to the above named crops?



50- (a) How do animals like fish move from one place to another?

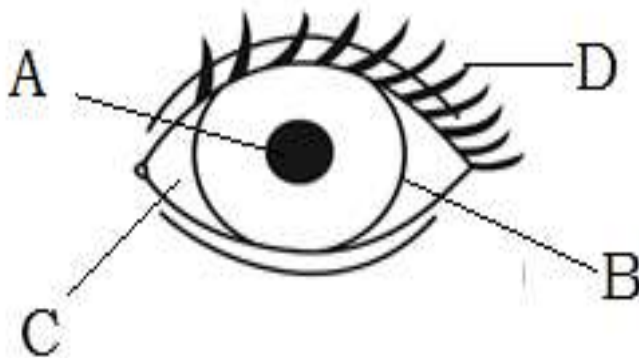
(b) Why are fish regarded as cold blooded vertebrates?

(c) Apart from fish, name two groups of cold blooded vertebrates?

(i) _____

(ii) _____

51- The diagram below shows the human eye. Use it to answer questions that follow.



(a) Name the part marked A

(b) state the function of part B

(c) Which STD affects the above organ?

(d) Which part of the lens camera has the similar function as part B?

52- (a) How do tsetse flies spread germs?

(b) How are tsetse flies dangerous to cattle?

(c) In which one way can tsetse flies be controlled in the environment?

(d) Why do most farmers prefer keeping Friesian cattle than other dairy breed of cattle?



53- (a) In which one way is friction useful to a butcher?

(b) Name any one way of increasing friction.

(c) Why is friction regarded as a nuisance force?

(d) In which one way are pulleys useful in our daily life?

54- (a) Name any one cause of poisoning at home.

(b) Write down any two signs of poisoning in humans.

(i) _____

(ii) _____

(c) Why is not advisable to make a person who has taken jik to vomit?

55- (a) A child has bow shaped bones, soft bone and weak bone. State the deficiency disease the child is suffering from.

(b) Give any two ways of preventing the deficiency disease in (a) above

(i) _____

(ii) _____

(c) Name any one other food deficiency disease.



END