



DIVINE EDUCATION CENTRE
SPECIAL PLE EXAMINATION ITEM $\frac{3}{6}$

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- In which blood vessel does blood flow with low pressure?

2- Name any one vector that spreads germs by biting.

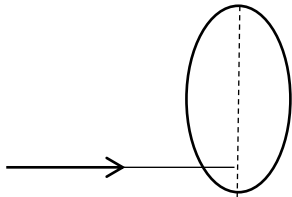
3- How is hair important on the head?

4- State any one reason why animals make sound.

5- Why do you think a fish needs water?

6- What plant process is beneficial to animals during respiration?

Use the diagram below to answer questions 7 and 8



7- Complete the diagram.

8- Name the type of lens shown above.

9- In which part of the kidney does filtration of blood take place?

10- Which non diarrhoeal disease is spread by a housefly?



11- What step of cleaning clothes dissolves dirt in clothes?

12- Define the term docking.

13- In which part of a moss plant are spores stored?

14- Why are plants referred to as producers in a food chain?

15- How does pruning help in the control of pests in the garden?

Use the diagram below to answer questions 16 and 17.



16- Name the above farm tool.

17- Which cattle management practice is carried out using the above farm tool?

18- State the factor that can enable a P.5 pupil to use displacement method.

19- Name the group of birds with half webbed feet.

20- How important are tentacles to snails?

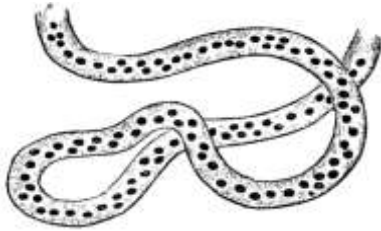


21- What first aid can you give to your friend with small insect in the ear?

22- Name any one disease caused by fungi to plants.

23- State any one difference between the nymph and adult cockroach.

Use the diagram below to answer questions 24 and 25.



24- What amphibian lays eggs as shown in the diagram?

25- State the importance of the slimy jelly to the eggs of the amphibian shown above?

26- Which characteristic of living things prevents living things from extinction?

27- Name the type of latrine recommended for children below 4 years?

28- How are food particles prevented from entering the wind pipe during swallowing?

29- How are pollen baskets useful to worker bees?

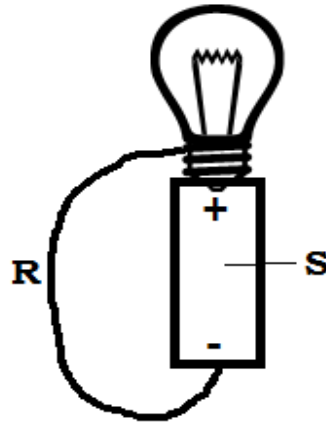
30- How are fish adapted to overcoming viscosity during swimming?



31- Name the method of planting suitable for planting millet seeds.

32- What element of PHC helps to control population growth?

33- Use an arrow to show the flow of electricity at point R in the circuit below.



34- Name the component of circuit marked S.

35- State the main reason why people rear alpine goats.

36- Mention any one factor that leads to sickness at home.

37- Identify any one condition needed by bacteria to multiply.

38- Why do many farmers prefer growing annual crops to perennial crops?

39- How do muscles help in body movement?

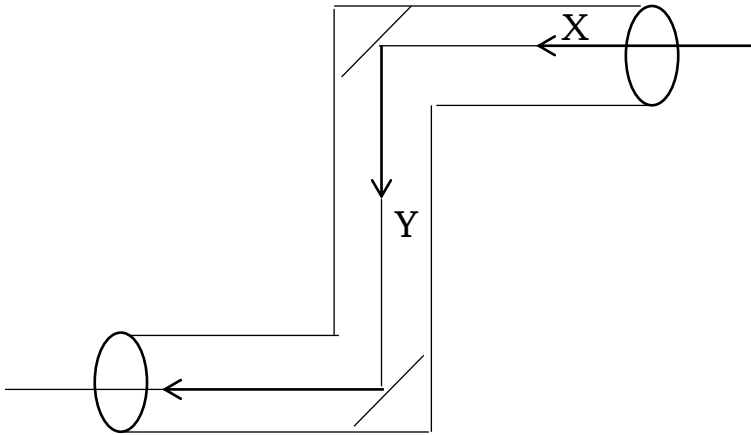
40- Which deficiency disease is caused by lack of iodine in the body?



SECTION B: 60 MARKS

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

41- Use the diagram of a periscope below to answer questions that follow.



(a) Name the ray marked

X_____ Y_____

(b) What type of mirrors are used in the above periscope?

(c) Under what principle of light does the above periscope work?

42- (a) What are fowl vices?

(b) Apart from egg eating, name any two examples of fowl vices.

(i) _____

(ii) _____

(c) How does debeaking prevent egg eating?

43- (a) In which part of the digestive system does digestion of proteins begin?

(b) How is food softened in the mouth for easy swallowing?

(c) Name the end product of proteins.

(d) How is hydrochloric acid useful during digestion?



44- The list below shows examples of fungi.

Yeast	mushroom	penicillium mould	toadstool
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(a) How do the following fungi reproduce;

(i) Mushroom

(ii) Yeast

(b) Which fungus in the list is poisonous?

(c) How is yeast useful to Kapere who makes alcohol?

45- Complete the table correctly

Type of simple machine	Example of machine
Inclined plane	(i)_____
(ii)_____	Knife
Wheel and axle	(iii)_____
(iv)_____	Car jack

46- Name any two examples of;

(a) Predator mammals

(i)_____ (ii)_____

(b) Scavenger mammals.

(i)_____ (ii)_____



47- (a) Why is it important to carry out watering in a nursery bed few hours before transplanting?

(b) Name any two crops whose seeds are raised in a nursery bed.

(i)_____

(ii)_____

(c) State a reason why trees in agroforestry should have deep roots.

48- (a) Name two ways through which heat travels in matter.

(i) _____

(ii) _____

(b) How does heat gain affect liquids?

(c) Why are gaps left between rails when constructing railway lines?

49- (a) What type of soil erosion creates shallow channels or ditches in the ground?

(b) How does soil erosion affect crop production?

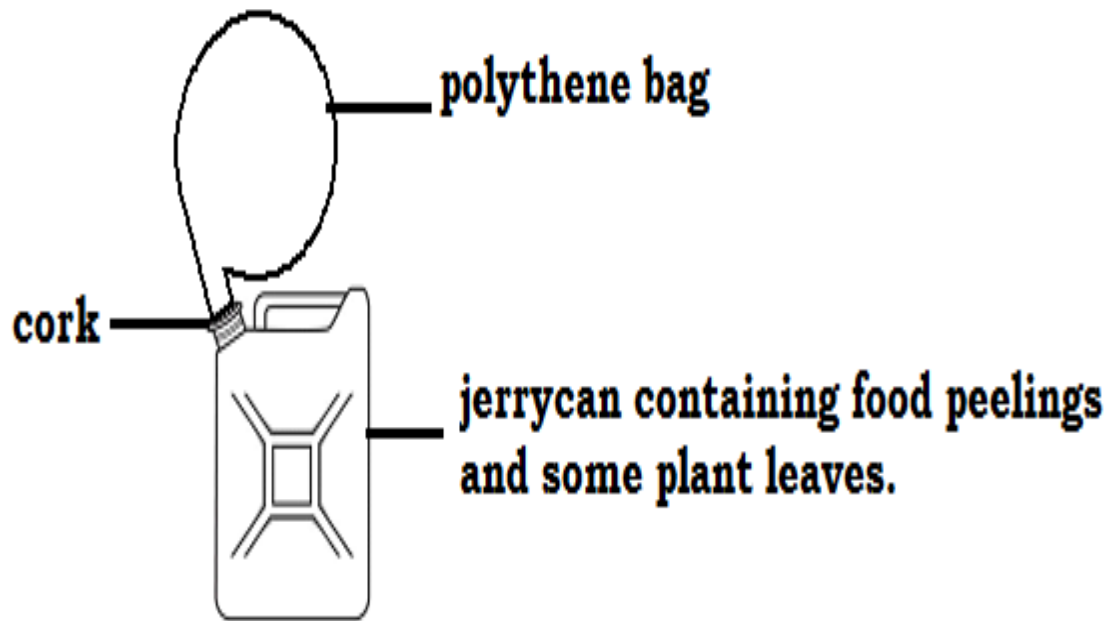
(c) Name any one method of controlling soil erosion.

(i) in low land areas

(ii) in highland areas.



50- The diagram below shows an experiment carried out by a P.7 class where food peelings and plant leaves were put in a twenty litre jerrycan with some little water for more than three weeks and the gas produced was collected in the polythene bag fixed at its top.



(a) Which gas is produced during the experiment?

(b) Why is the jerrycan tightly covered with a cork at its opening?

(c) What scientific name is given to jerrycan as a container used in the above experiment?

(d) How can the wastes of the above process be useful to a crop farmer?

51- (a) Write **ECOSAN** in full as used in water and sanitation

(b) Give one use of ash in an ECOSAN latrine.

(c) Why are ECOSAN latrines said to be environmentally friendly?

(d) What distance is recommended between a latrine and a water source?

52- The diagram below shows one of the elements of PHC. Use it to answer questions that follow.



(a) Identify the element of PHC shown in the diagram above.

(b) Suggest any two ways people promote the above identified element of PHC.

(i) _____

(ii) _____

(c) Of what value is the identified element of PHC to the community?



53- Arrange the following steps correctly as used when giving first aid to a person with near drowning.

(i) Lie the person on his / her back.

(ii) Remove the victim from water.

(iii) Apply kiss of life for the victim to regain breath.

(iv) Press the belly of the victim to force water out of the lungs.

(i) _____

(ii) _____

(iii) _____

(iv) _____

54- (a) In which unit is frequency measured?

(b) How does frequency affect the pitch of sound?

(c) Apart from the frequency, name one other factor that determines the pitch of sound.

(d) How is a borharp played?

55- (a) Name any one characteristic of dairy cattle.

(b) State the chief product got from dairy cattle.

(c) Suggest any one disease of cattle caused by virus.

(d) How is capital important when starting a livestock farm?

END

