



DIVINE EDUCATION CENTRE

PRIMARY LEAVING EXAMINATION-2023

INTEGRATED SCIENCE (ITEM 3 of 4)

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 **11 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 first type of teeth to develop in human beings.

2- In which one way can farmers prevent tick borne diseases?

3- How do people become passive smokers?

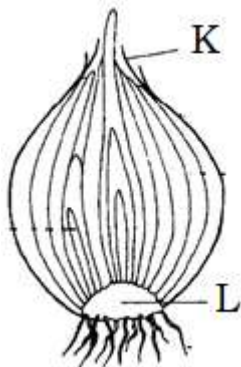
4- Name any one form of energy produced during the process of cutting firewood with a panga.

5- How does weeding help in the proper growth of crops?

6- Why are images formed on the retina?

7- How do organisms with exo-skeleton increase in size?

Use the diagram below to answer questions 8 and 9



8- How is the drawn plant propagated?

9- State the function of part marked K to the plant.

10- Give any one advantage of using natural fertilizers over artificial fertilizers.



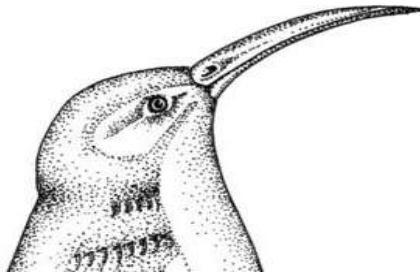
11- Which natural process leads to reduction of carbondioxide in the environment? _____

12- In which one way can short circuit be prevented?

13- How does rusting affect magnets?

14- Apart from water, name any one other renewable resource used to generate electricity.

The diagram below shows a beak of a bird. Use it to answer questions that follow.



15- How is the bird with the above beak adopted to its mode of feeding?

16- How are birds with the above beak useful to farmers?

17- How are tendrils useful to passion fruits?

18- To which class of lever does the human foot belong?

19- In which one way does the skin regulate human body temperature on cold days?

20- How is a dentist different from a denturist?



21- How is propagation of irish potato different from sweet potato?

22- How does wearing of a life jacket prevent near drowning in water?

23- Name any one appliance used at home that changes electrical energy to heat energy.

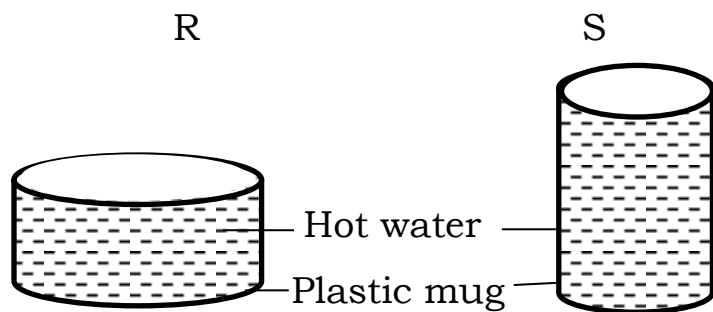
24- Mention any one factor that affects the rate of evaporation.

25- Apart from using oxygen, how is burning similar to rusting?

26- What condition in babies is shown by sunken eyes and fontanelle?

27- Name the part of the human eye that works like diaphragm of a camera.

Use the diagram below to answer questions 28 and 29.



28- In which container will water cool first?

29- Give a reason for your answer in 28 above.

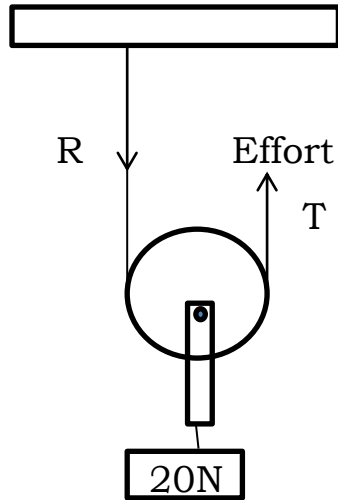
30- Why are ventilators put at a higher level than windows on a house?



31- How does debeaking prevent egg eating?

32- How do soft boards help to reduce echoes in a cinema hall?

The diagram below shows a type of pulley. Use it to answer questions 33 and 34.



33- Name the type of pulley shown above.

34- What is the effort needed to lift the load?

35- To what type of bones does humerus belong?

36- Give any one advantage of using herbicides to kill weeds in crop gardens.

37- Name the type of energy possessed by water at 212°F ?

38- How can farmers harvest both crops and wood?

39- Apart from production of sperms, give one other function of testes in the human body.

40- State the main function of leaves to plants.



SECTION B: 60 MARKS

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

41- Use the illustration below to answer questions that follow.

smoking

drug misuse

alcoholism

obesity

(a) What un health practice above affects

(i) The liver _____

(ii) The lungs _____

(b) How can drug misuse be prevented?

(c) Give any one life skill that can safe guard children against smoking.

42- Why is COVID 19 regarded as a communicable disease?

(b) Give any two signs or symptoms of COVID 19

(i) _____

(ii) _____

(c) In which one way can the spread of COVID 19 be prevented?

43- Match the body systems with their functions correctly.

Circulatory system	multiplication of living things
Skeletal system	breakdown of food
Digestive system	body movement
Reproduction system	transportation of blood

(i) Circulatory system _____

(ii) Skeletal system _____

(iii) Digestive system _____

(iv) Reproduction system _____



44- Name any two characteristics of flowers that attract pollinators.

(i) _____

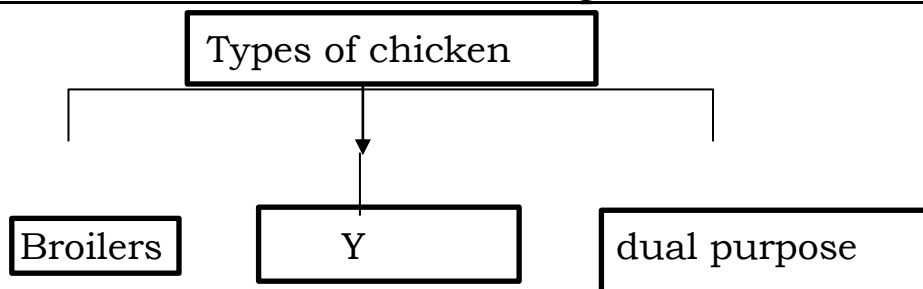
(ii) _____

(b) In which part of a flower do the following processes take place?

(i) fertilization _____

(ii) Pollination _____

45- Use the illustration below to answer questions that follow.



(a) Name the type of chicken marked with letter Y.

(b) Give any two examples of the type of chicken marked Y.

(i) _____

(ii) _____

(c) How can farmers improve local breeds of chicken?

46- Mwima poured hot water on his hand accidentally.

(a) What injury did he get?

(b) What first aid can be given to Mwima?

(c) Why should Mwima be given first aid?

(d) Why is water not used to put out fire caused by petrol?



47- Under what principle does a vacuum flask work?

(b) Why are the walls of a vacuum in a vacuum flask silvered?

(c) Name one material from which a handle of a flat iron can be made.

(d) Write any one physical change brought about by heat loss?

48- State any two conditions that can make men vulnerable.

(i) _____

(ii) _____

(b) In which two ways can we care for vulnerable people?

(i) _____

(ii) _____

49- Use the diagram below and answer questions that follow.

A	B	C	D
Frog	Snake	Rabbit	Snail
Newt	Tortoise	Lion	Slug

(a) How are animals in group A, B and C similar?

(b) How are animals in group D different from other animals?

(c) To which class of animals do animals in group B belong?

(d) How is reproduction in animals "C" different from other animals?



50- Define the term anti-social behavior.

(b) Write any two examples of anti-social behavior.

(i) _____

(ii) _____

(c) State any one way of controlling antisocial behavior in our communities.

51- Name one sheep product used in textile industry.

(b) How is shearing different from docking?

(c) Apart from textile industry, which other industry uses sheep products?

(d) Name any one disease that affects both sheep and goats.

52- Name the agent of gully erosion.

(b) Give any one danger of soil erosion in the environment.

(c) Write down any one way of controlling soil erosion in low land areas.

(d) How does bush burning cause soil erosion?



53- Name any one example of;

(a) (i) solid fossil fuel_____

(ii) liquid fossil fuel_____

(iii) gaseous fossil fuel _____

(b) State any one disadvantage of using fossil fuels in the environment.

54- What type of images are formed by a pin hole camera?

(b) Why is the inside part of a pin hole camera painted black?

(c) Name the part of a pin hole camera that has the similar function as retina of the eye.

(d) State any one factor that leads to the formation of a blurred image in a pin hole.

55- How is pulmonary artery different from other arteries?

(b) State the role of heart in our bodies.

(c) Give any two ways of increasing the amount of blood in the body.

(i) _____

(ii) _____

END