

#### DIVINE EDUCATION CENTRE

#### SPECIAL MOCK ASSESSMENT-2023

INTEGRATED SCIENCE (ITEM 3 of 3)

#### Time allowed: 2hours 15 minutes

Random No.

Candidate's name	e:	•••••	• • • • • •	•••••	•••••	• • • • • •	•••••	•••••	•••••	•
Candidate's Signature:										
District No:										

### 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				

Personal No.

**Turn Over** 

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## **SECTION A: 40 MARKS**

Questions 1 to 40 carry one mark each.

11- Of what use is the epiglottis in the respiratory system?
12- Why are boats and aeroplanes made streamlined?
13- Identify the force that is likely to reduce on the efficiency of the machin
when it is being used.
14- Name the type of fracture shown in the diagram below.
15- Why does a stick appear bent when partly put into a bucket full of water 16- State any one example of a primary colour.
17- How can the volume of a broken piece of brick be obtained?
18- Name the sense organ for feeling.
19- Identify the form of energy stored in a dry cell.
20- Why can't sound travel through vacuum?

22- Apart from magnetic	om wood and rubber, state any other material which is non-
23- Give one immuniza	e reason why parents are advised to take their babies for ation.
24- State an	ny one reason why a fuse may break or melt.
The diagram <b>26</b> .	below shows a head of a tape worm, use it to answer questions 25 and
	25- Name the part marked K
K	26- How does the intestinal worm shown enter our body?
27- How doe	es mulching control the loss of water from the soil?
28- Name th	ne waste material excreted by the liver.
29- State on	ne way in which colostrum is important to the newly born calf.
30- How is a	a pineapple similar to a banana in the way they are propagated?

21- Why is dry season the best for shearing of sheep?

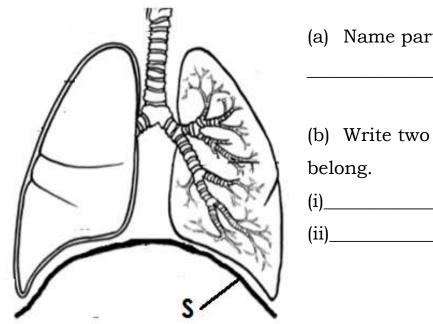
31- What is seed dispersal?
32- Name any one vaccine given to a child at birth.
33- How can a bad smell be prevented in an ordinary pit latrine?
34- Mention one example of an animal kept for work.
35- How is the absence of vitamin C harmful to our health?
36- State the property of magnet shown below.
37- Which part of the seed produces the stem?
38- Give one example of a long bone in the human body.
39- What state of matter does heat travel by convection?
40- State the use of a swim bladder to some fish.

#### **SECTION B:60 MARKS**

Questions 41 to 55 carry four marks each.

41- What is pollination?					
(b) Name the two types of pollination in flowering plants.					
(i)					
(ii)					
(c) Mention one example of an insect that pollinates flowers at night.					

# 42- The diagram below is of human lungs . Use it to answer the questions that follow.



- (a) Name part marked S
- (b) Write two systems where the organs

(c) Write down any one way of maintaining the proper functioning of the above organs.

43- (a)Apart from free range system, name two other me poultry.	ethods of keeping
b) State two disadvantages of free range as a system of	keeping poultry.
i)	
ii)	
14- (a) Mention any two functions of the skeleton.	
i)	
ii)	
(b) State what happens to the following muscles when t	
i) triceps	
ii) biceps	
45- The table below shows the classification of anima	als. Use it to answer
questions that follow.	
Animal kingdom	
Vertebrates in	vertebrates
Birds mammals X fish Y	
a)Name the groups of animals marked	

(b) Give one example of animals on each of the following

(i) Arachnids \_\_\_\_\_

(ii) Molluscs \_\_\_\_\_

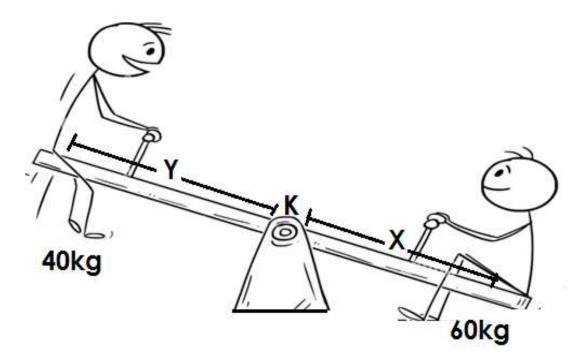
Y\_\_\_\_\_

46- (a)Mention any two methods of magnetization
i)
ii)
(b)Suggest any two ways of demagnetization.
i)
ii)
47- The diagrams below show percussion musical instruments of three
different sizes. Use them to answer questions that follow.
$\begin{pmatrix} A & A & A & A & A & A & A & A & A & A $
<del>[                                    </del>
a) Which drum will produce sound with the
(i) Highest pitch
(ii) Lowest pitch
b) What makes the drum in a(i) to produce highest pitch of sound?
c) Apart from the above instruments, mention any other percussion musical
instrument that produces sound.

# 48- Match the different forms of electricity and their sources.

	A	В
(a)	Thermal electricity	fast flowing water
(b)	Solar electricity	burning uranium
(c)	Hydro electricity	burning fuel
(d)	Nuclear electricity	sun
(a	Thermal electricity	
(b	)Solar electricity	
(c	Hydro electricity	
(d	Nuclear electricity	
(i)_ (ii)		severe diarrhoea be helped to be rehydrated?
(c)	Mention any one mineral	salt lost during diarrhoea.
50	- Name any two sources o	of food.
(i)_		
		ed from the following foods?
(i)	oranges	
(ii)	carrots	

# 51-Study the diagram below carefully and answer the questions that follow.



(a) Name the distance marked Y and X	
Y	X
(b) Why is the above machine classified	under first class lever?
(c) How is point K important to the leve	r?
52- Re-arrange the following sentences	to make a good order of how rain is

- formed.

  (i) The nimburg elevade become become and fell on noin
- (i) The nimbus clouds become heavy and fall as rain.
- (ii) Evaporation and transpiration takes place.
- (iii) Water vapour rises up and condenses to form nimbus clouds.
- (iv) The sun heats water in lakes and vegetation.

53- (a) Identify two human activities that can damage the soil.
(i)
(ii)
(b)Name the layer of the soil that is good for agriculture.
(c) State one way of caring for soil.
54- (a) Which stages of a butterfly are
(i) Harmful to crop farmers
(ii) Useful to crop farmers
(b) Of what function is the chrysalis to the larva stage of a butterfly?
(c) What name is given to the larva stage of a butterfly?
55- The diagram below shows a ray of light on a smooth shiny surface $W$ . use it to answer questions that follow. $ \begin{array}{c} & & & \\ & & $
(b) Name an instrument where the above principle is used.
(c) Use letter X to show the angle of incidence.

## **END**