



DIVINE EDUCATION CENTRE

**PRE MOCK ASSESSMENT-2023**

INTEGRATED SCIENCE (ITEM 2 of 3)

***Time allowed: 2 hours 15 minutes***

Random No.						Personal No.		

**Candidate's name:** .....

**Candidate's Signature:** .....

**District 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:40MARKS

1- Identify any one living component of the environment.

2- Where in the female reproductive organ does fertilization take place?

3- How useful is a fuse on an electric circuit?

4- State one importance of transpiration in the environment.

5- Name the body organ greatly damaged due to excessive smoking of tobacco.

6- What type of leaf venation is shown in the diagram below?



7- State any one crop with such kind of leaf as shown above.

8- What name is given to a liquid used in clinical thermometer?

9- Name the body organ protected by the spine.

10- Give any one way of preventing bad body odour.

11- What is the longest bone in the body?



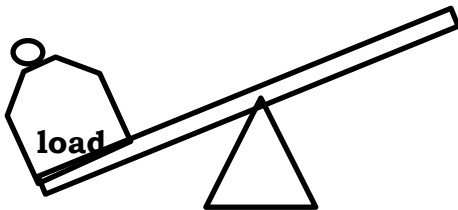
12- Name any one mineral salt stored in bones.

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13- Which form of electricity is obtained from burning uranium?

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14- Use letter X to show where a person will hold in order to use less force to overcome the load.



15- Use an arrow to show the direction of effort on the above diagram.

16- How does the skin help to cool the body?

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17- How is reproduction of a fern plant similar to mushroom?

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18- Apart from planting bulbs how else are onions propagated?

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19- State a reason why the left side of the heart is thicker than the right side of the heart.

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20- Why are ventilators on a living house put above the windows?

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21- Mention any one way how non renewable resources can be conserved.

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22- Identify any one example of a mammal that flies.

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23- How is petrol in a car similar to food in the human body?

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24- What method of family planning delays the next ovulation in women?

25- Write any one method of harvesting crops.

26- State one way how fungi is dangerous.

Below is a beak of a sun bird. Use it to answer questions that follow.



27- Name the type of food eaten by the bird in the diagram above.

28- How is the beak in the diagram above adopted to its mode of feeding?

29- Give any one way in which people depend on plants.

30- Give any one reason why honey does not go bad yet it is food.



31- How is a tadpole able to stay in water like a fish?

32- Give any one reason why farmers castrate their male animals.

33- To which group of vertebrates does a tortoise belong?

34- Which type of objects do we find their volume using displacement method?

35- State any one indicator of poor sanitation in an area.

36- Why does a lighting candle go off shortly after being covered?

37- By what means can iron fillings be separated from sand?

38- Which body organ helps in oxygenation of blood?

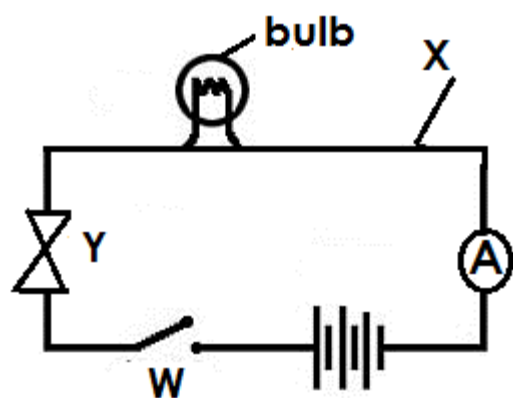
39- What enables a bat to avoid knocking trees and buildings at night?

40- Name any one condition that would make a seed fail to germinate in the presence of all condition?



### SECTION B: (60MARKS)

41- The diagram shows a simple electric circuit. Use it to answer the questions that follow.



(a) Name the parts marked X and Y

X \_\_\_\_\_

Y \_\_\_\_\_

(b) If W is closed, give one reason why the bulb would not light

\_\_\_\_\_  
\_\_\_\_\_

(c) How is Y useful in the above circuit?

42- What do we call the practice of removing unwanted plants that grow with crops in the garden?

(b) Write down any two methods of removing unwanted plants in the garden.

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

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

(c) Give one danger of having unwanted plants growing together with crops in the same garden.

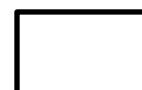
43- Define the following terms as used in sound

(a) Volume

(b) Pitch

(c) Frequency

(d) Echo



44- Match the following parts of the skeleton and their body organs they protect.

(i) Vertebral column                      reproductive organs

(ii) Rib cage                                  brain

(iii) Pelvis                                    heart

(iv) Skull                                      spinal cord

(i) Vertebral column \_\_\_\_\_

(ii) Rib cage \_\_\_\_\_

(iii) Pelvis \_\_\_\_\_

(iv) Skull \_\_\_\_\_

45- What is drug prescription?

(b) State two reasons why drugs should be prescribed.

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

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

(c) Mention any one type of drugs apart from essential drugs.

46- Give one example of poisonous snake.

(b) How does venom affect blood?

(c) What first aid would you give to a person who has been bitten by a snake?

(d) State any one characteristic of poisonous snakes.



47- The table below shows growth movement of plants in response to stimuli.

Study and complete it carefully.

<b>Tropism</b>	<b>Stimulus</b>
Geotropism	_____
_____	Water and moisture
Thigmotropism	_____
_____	light

48- (a) How are birds different from mammals?

(b) How are birds different from mammals?

(c) State two examples of mammals that lay eggs.

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

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

49- (a) Write down the component of air that helps to put out fire.

\_\_\_\_\_  
(b) What percentage does the gas named in (a) above occupy in the atmosphere?

\_\_\_\_\_  
(c) State a reason, why the gas named in (a) is used to put out fire.

\_\_\_\_\_  
(d) Apart from putting out fire, give any other use of the gas named in (a) above.



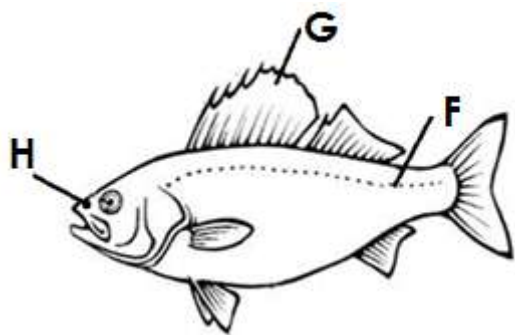
50- Why does a ship float on water yet it is made up of metal?

\_\_\_\_\_  
(b) Why do some objects sink in water?

\_\_\_\_\_  
(c) An irregular object has a mass of 60g and volume of 22cc. calculate its density.



51- The diagram below shows a fish. Study and use it to answer questions that follow.



(a) name the parts marked G and F

G \_\_\_\_\_

F \_\_\_\_\_

(b) Give the function of part marked F to a fish.

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(c) Why is a fish called an aquatic animal?

52- State any two human activities that degrade the environment.

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

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

(b) Give any two ways how the environment can be conserved.

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

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



53- What is soil erosion?

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(b) State any two agents of soil erosion

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(c) How can soil erosion be controlled in hilly areas like Kabale?

54- How is a mass similar to a fan in terms of feeding?

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(b) Which of the following is odd man out?(circle)

mass   yeast   fern   mushroom

(c) Give a reason for your answer above.

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(d) How is a fern able to reproduce yet it is not a flowering plant?

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55- State the function of each of the following weather instrument

(i) Wind sock

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(ii) Rain gauge

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(iii) Barometer

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(b) Why should a barometer be kept in a Stevenson screen?

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**END**