



DIVINE EDUCATION CENTRE  
**SPECIAL MOCK ASSESSMENT-2023**

INTEGRATED SCIENCE (ITEM 3 of 3)

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

Random No.						Personal No.		

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

**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		

©2022 Divine Education Centre

**Turn Over**

## SECTION A: 40 MARKS

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

1- Name the blood cells that carry oxygen in the body.

---

2- State any one role played by the sun in water cycle.

---

3- Identify the injury one gets after stepping on glowing charcoal

---

4- Why are weaning babies given mashed and soft foods?

---

5- How is the use of ureter different from that of urethra?

---

The diagrams below show the eggs of amphibians. Use them to answer question **6** and **7**



6- Which amphibian lays eggs marked B?

---

7- State the importance of jelly on the eggs marked C

---

8- Name the part of the alimentary canal where digestion of fats begins.

---

9- Write down one way of promoting the proper functioning of the circularly system.

---

10- Which element of PHC enables parents to control family size?

---

11- Of what use is the epiglottis in the respiratory system?

---

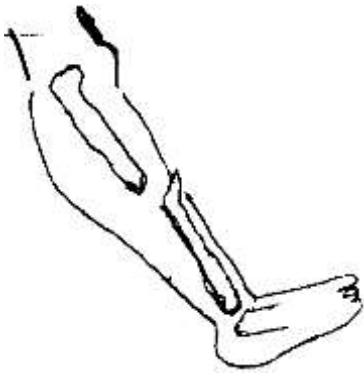
12- Why are boats and aeroplanes made streamlined?

---

13- Identify the force that is likely to reduce on the efficiency of the machine 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?

---



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

---

22- Apart from wood and rubber, state any other material which is non-magnetic.

---

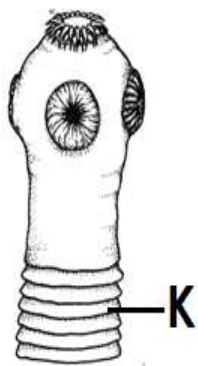
23- Give one reason why parents are advised to take their babies for immunization.

---

24- State any one reason why a fuse may break or melt.

---

The diagram below shows a head of a tape worm, use it to answer questions **25** and **26**.



25- Name the part marked K

---

26- How does the intestinal worm shown enter our body?

---

27- How does mulching control the loss of water from the soil?

---

28- Name the waste material excreted by the liver.

---

29- State one way in which colostrum is important to the newly born calf.

---

30- How is a pineapple similar to a banana in the way they are propagated?

---



31- What is seed dispersal?

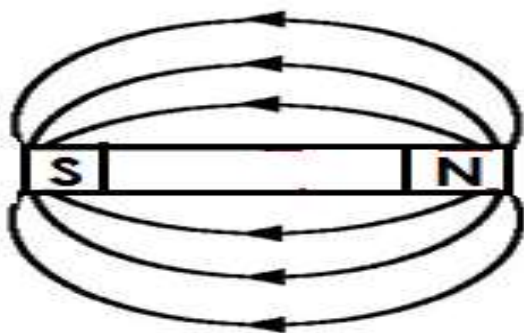
32- Name any one vaccine given to a child at birth.

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.

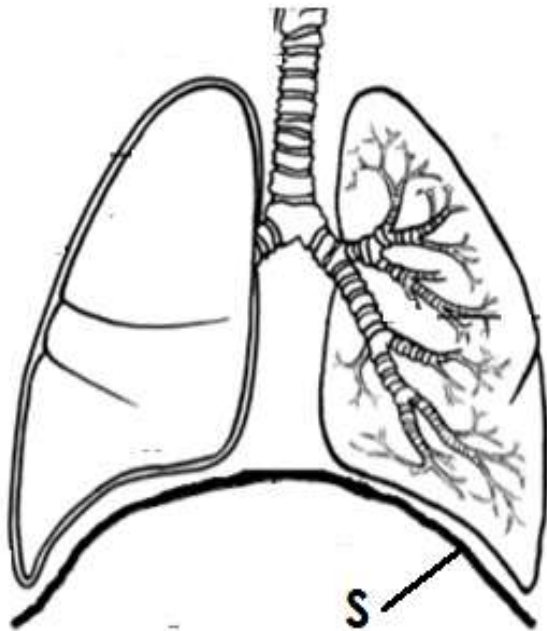
(i) \_\_\_\_\_

(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 belong.

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

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

(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 methods of keeping poultry.

(b) State two disadvantages of free range as a system of keeping poultry.

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

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



44- (a) Mention any two functions of the skeleton.

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

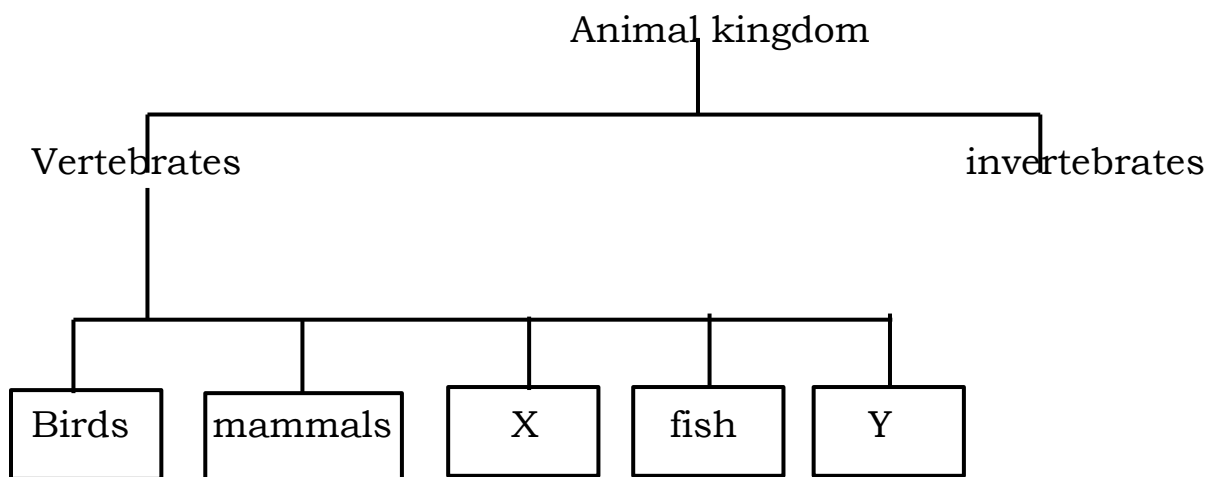
(ii) \_\_\_\_\_

(b) State what happens to the following muscles when the fore arm is folded.

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

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

**45- The table below shows the classification of animals. Use it to answer questions that follow.**



(a) Name the groups of animals marked

X \_\_\_\_\_ Y \_\_\_\_\_

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

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

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

46- (a)Mention any two methods of magnetization

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

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

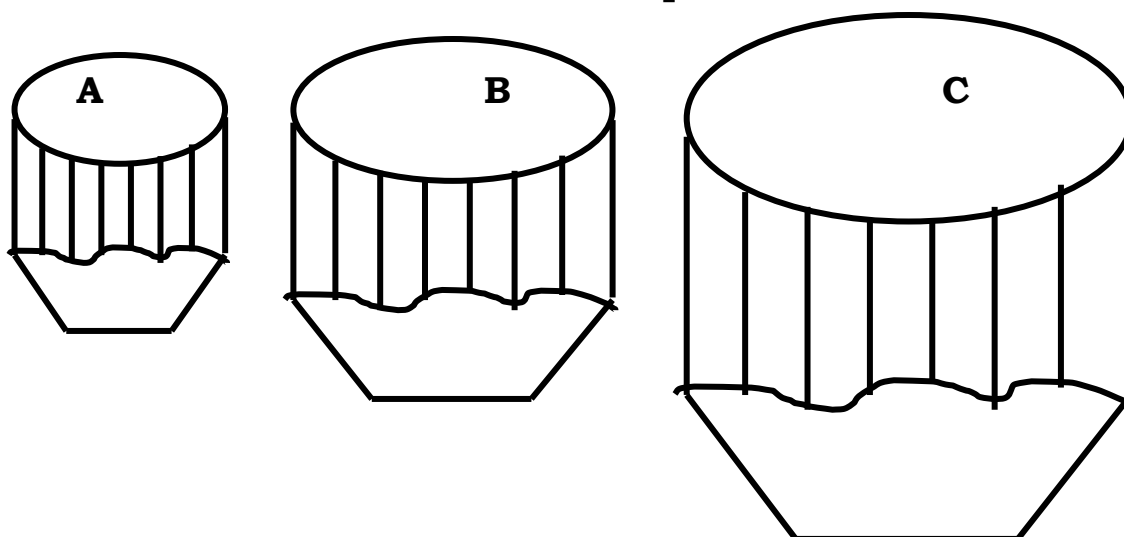
(b)Suggest any two ways of demagnetization.

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

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



**47- The diagrams below show percussion musical instruments of three different sizes. Use them to answer questions that follow.**



(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**

**B**

- |                         |                    |
|-------------------------|--------------------|
| (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 \_\_\_\_\_

49- (a) Write two activities done to help in the control of diarrhoeal diseases at home.

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

(b) How can a person with severe diarrhoea be helped to be rehydrated?

\_\_\_\_\_

(c) Mention any one mineral salt lost during diarrhoea.

\_\_\_\_\_



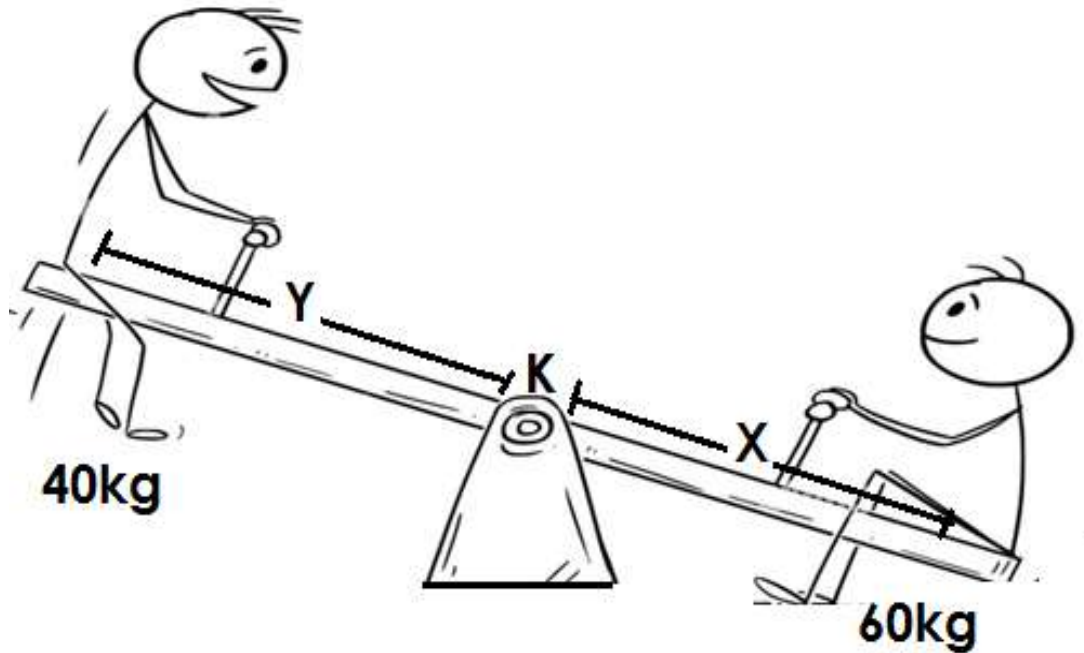
50- Name any two sources of food.

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

(b) Which vitamin is obtained 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 lever?

\_\_\_\_\_

**52- Re-arrange the following sentences to make a good order of how rain is formed.**

- (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 \_\_\_\_\_

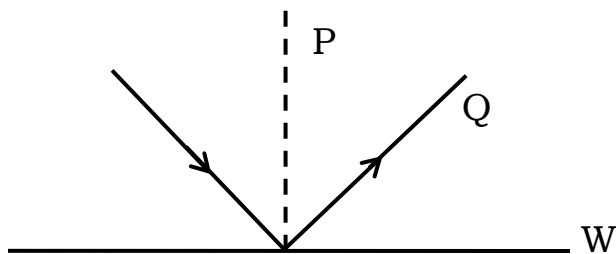
(b) Of what function is the chrysalis to the larva stage of a butterfly?

\_\_\_\_\_

(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.



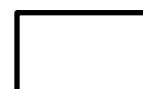
(a) Name the rays marked P and Q

\_\_\_\_\_

(b) Name an instrument where the above principle is used.

\_\_\_\_\_

(c) Use letter X to show the angle of incidence.



**END**