



DIVINE EDUCATION CENTRE  
**PRE-PRIMARY LEAVING EXAMINATION**  
**2022**

INTEGRATED SCIENCE (ITEM 1 of 4)

***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: 40 MARKS

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

1. Mention any one example of an eight legged animal.

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2. Why does hot tea in a metallic cup cool faster than one in a plastic cup?

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3. Give one example of voluntary muscle in the human body.

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4. Why is a bat referred to as a nocturnal animal?

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5. How are eggs of a fish fertilised?

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6. In which way does a use of biogas conserve the environment?

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7. Name and draw the type of lens used to correct long sightedness.

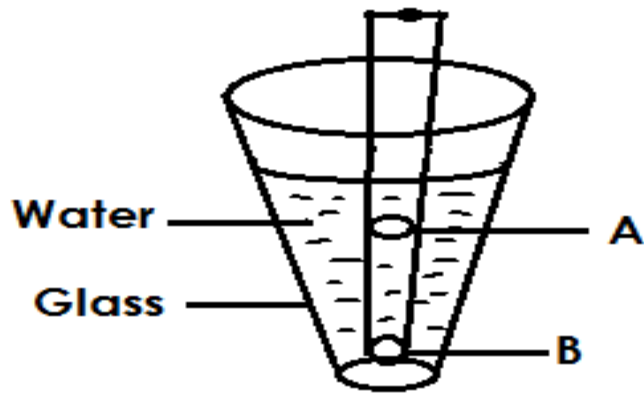

8. Give one way in which the umbilical cord is important to the development of a foetus in the uterus.

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9. What type of skeleton does an earth worm have?

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The diagram below shows a coin in the glass of water. Study and use it to answer the question that follows.



10. Why does the coin seem to appear at point A yet it is at point B

\_\_\_\_\_



11. Which agent of soil erosion causes gullies?

\_\_\_\_\_

12. What is the main cause of fainting?

\_\_\_\_\_

13. Name the vaccine that is administered to children at the age of 36 weeks.

\_\_\_\_\_

14. Why is that vaccine mentioned above given to children at 36 weeks?

\_\_\_\_\_

15. Why do some plants shed their leaves during dry season?

\_\_\_\_\_

16. State a reason why water obtained by decantation method is not good for drinking. \_\_\_\_\_

\_\_\_\_\_

17. Which property of magnets enables a magnetic compass to work?

\_\_\_\_\_

18. State any one way how global warming can be controlled.

\_\_\_\_\_

19. Name the sexually transmitted disease which causes blindness in unborn babies.

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The diagram below shows two bar magnets placed close other. Use it to answer the question that follows.



20. Use arrows to show what happens to the two bars of magnets.



21. To which group of plants do ferns and liverworts belong?

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22. Why do the people installing electricity wear rubber gloves?

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23. How is the propagation of Irish potatoes different from that of sweet potatoes?

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24. Name the part of the human ear responsible for balancing the body.

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25. Give a reason why earthworms come out of the soil after it had rained.

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26. Why are the legs of a person who has fainted raised higher than the head as away of giving first aid?

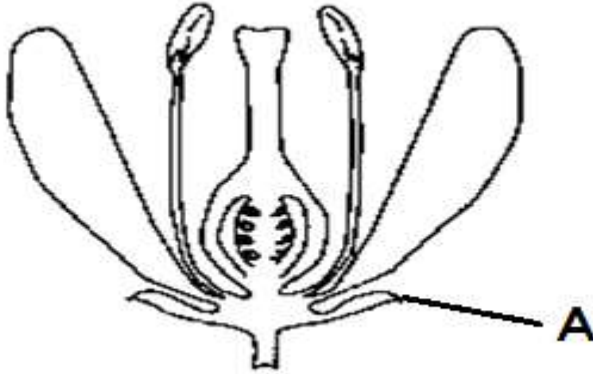
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27. Of what importance is water during the process of photosynthesis?

28. State any one importance of the liver in human body.

29. A man lives with his wife and two adopted sons. What type of family is this?

The diagram below is a section of a flower. Use it to answer questions 30 and 31.



30. Name the part marked A.

\_\_\_\_\_



31. Use letter N to show the part that receives the male reproductive cells.

32. State any one way ant social behaviours can be controlled in the community.

\_\_\_\_\_

33. How do pawpaw plants avoid self-pollination?

\_\_\_\_\_

34. What substance in the human body helps in the formation of nails and hair?

\_\_\_\_\_

35. Why is the moon not regarded as a natural source of light?

\_\_\_\_\_

36. Give one example of a mollusc which is a vector to humans.

\_\_\_\_\_

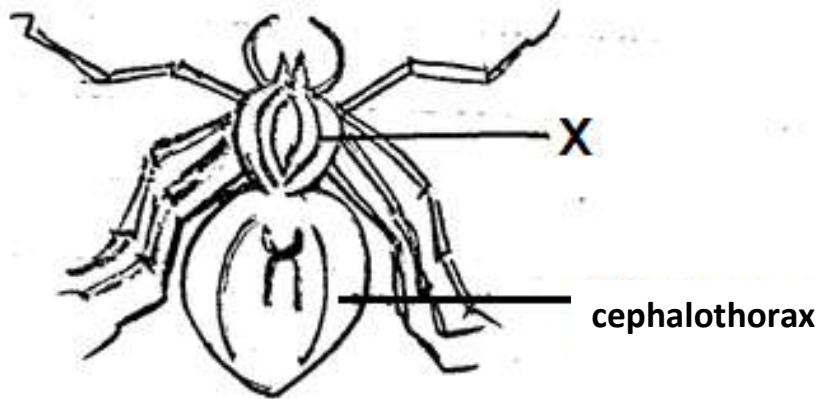
37. Point out one way in which whales are able to maintain their body temperature in cold seas and oceans?

\_\_\_\_\_

38. How is wind formed?

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The diagram below is of a spider. Study it carefully and answer questions that follow



39. Name the part marked X

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40. How does the spider above reproduce?

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**SECTION B : 60 MARKS**

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

41. a) What name is given to an instrument used to measure the body temperature?

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b) Name the liquid commonly used in the instrument.

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c) Why should doctors shake the above instrument before measuring the temperature of the patient?

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d) What is the temperature of a normal human being?

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42.a) Give any two effects of heat on matter.

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

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

b) State any two ways in which heat transfer by conduction is important to people.

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

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

43.a) State any two natural causes of environmental degradation.

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

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

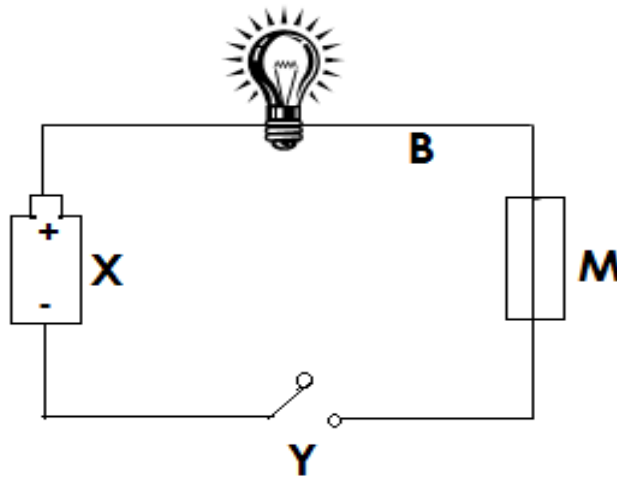
b) Give two human causes of environmental degradation.

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

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



44. The diagram below is of simple circuit. Use it to answer questions that follow.



a) Name the parts marked B and M

B \_\_\_\_\_ M \_\_\_\_\_

b) State the energy change that takes place at X when Y is closed.

\_\_\_\_\_

c) Give one form of energy stored in part X.

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

45. a. What are farm records?

\_\_\_\_\_

\_\_\_\_\_

b) Mention one type of farm records.

\_\_\_\_\_

c) Give two importance of keeping farm records.

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

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

46.a) State any two ways in which plants depend on each other.

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

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

b) Give two ways in which animals depend on each other.

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

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





47. How are the following crops propagated?

- (a) Banana \_\_\_\_\_
- (b) Pineapples \_\_\_\_\_
- (c) Carrots \_\_\_\_\_
- (d) Bryophyllum \_\_\_\_\_

48. The table below shows a list of animals. Use it to answer the questions that follow

<b>S</b>	<b>T</b>	<b>U</b>
Chameleon	Cow	Frog
Snake	Monkey	Salamander
Lizard	Lion	Newt

a) Which characteristic is common to all the animals in the table?

\_\_\_\_\_

b) How is reproduction in animals in list U similar to those in list S?

\_\_\_\_\_

c) Which list has warm blood animals?

\_\_\_\_\_

d) Name any other animal that could be missing in list S

\_\_\_\_\_

49.a) What name is given to the liquid part of blood?

\_\_\_\_\_

b) Name one component of the liquid part of blood.

\_\_\_\_\_

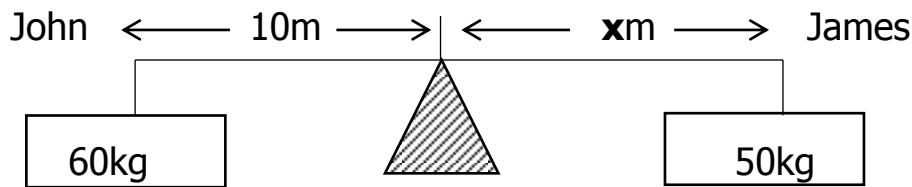
c) Give any two uses of the liquid part of blood.

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

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



50. Use the diagram below to answer the questions that follow.



a) Name the simple machine above.

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b) Give one class of pulleys that behaves like the simple machine above.

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c) What distance will **X**m be to enable the simple machine to be at equilibrium?

**(2marks)**

51.a) How is a life cycle of a locust different from that of a honey bee?

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b) What scientific name is given to an adult stage of a housefly?

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c) What name is given to the casing around a growing insect?

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d) What causes moulting in insects?

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52a) Why does the body need more oxygen than carbon dioxide?

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b) State two types of respiration.

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

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

c) Where does respiration take place in body of an animal?

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53 a) Mention two causes of sickness in the community.

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

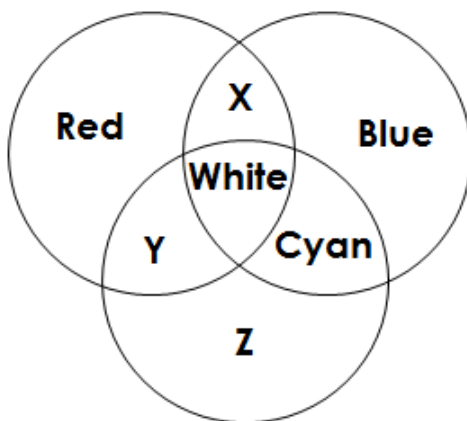
(ii) \_\_\_\_\_

b) State two ways how common sickness can be controlled in the community.

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

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

54. An illustration below shows all the three types of colours. Use it to answer questions that follow.



a) Name the colours labelled

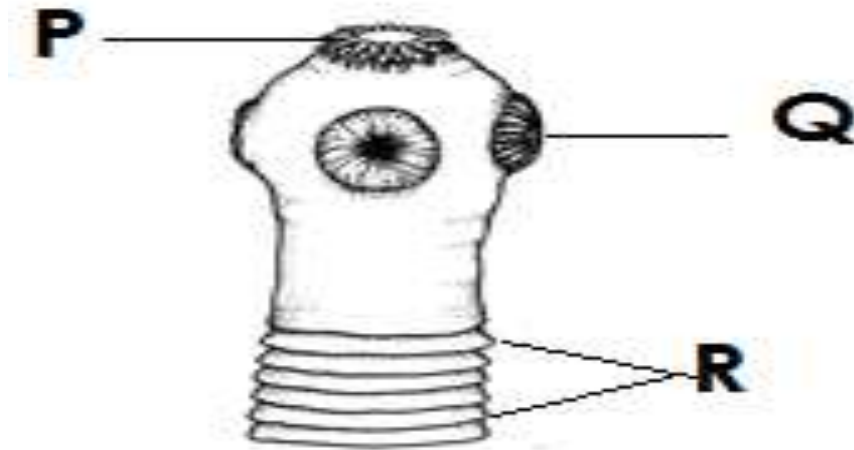
X \_\_\_\_\_ Y \_\_\_\_\_

Z \_\_\_\_\_

b. State the lightest colour of the rainbow.

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55. The diagram below shows a head of a tape worm. Study it and use it to answer the questions that follow.



a. Name the part marked Q

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b. How does the above tape worm enter into the body of a human being?

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c. What is the mode of feeding of the above tape worm?

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d. How is part marked R important to the tape worm?

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**END**