DIVINE EDUCATION CENTRE

MOCK EXAMINATIONS

2022

INTEGRATED SCIENCE (SPECIAL SET **2**)

Time allowed: 2hours 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		

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Turn Over

SECTION A (40 MARKS)

Questions 1 to 40 carry 1 mark each

1. Identify the sense organ monkeys' use for hearing.

   _____

2. Oral health clubs encourage us to brush our teeth regularly. How often must we brush our teeth?

   _____

3. Mention one example of an animal fibre.

   _____

4. Name the mineral salt suitable for a person suffering from goiter.

   _____

5. State one way in which animals depend on plants.

   _____

6. Why is it a good practice to apply chicken droppings in the garden?

   _____

7. How do fish help to control malaria in an area?

   _____

8. Give one raw material used by plants to make starch.

   _____

9. How important is the process of weathering to a farmer?

   _____

10. Why do fish allow a current of water to pass through their gills?

    _____

11. Name the class of food recommended for babies.

_____

12. In the space below, draw a diagram of a lens used to correct myopia.

13. Hope used water to put out petrol fire but it continued burning. State a reason for this.

_____

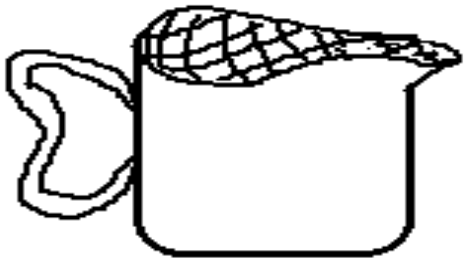
14. Mention one natural cause of a family failing to have enough food.

_____

15. How important are small stones (grit) found in the gizzard of a bird?

_____

16. State the use of the instrument below on a cattle farm.



_____

17. To which group of machines is a road winding uphill?

_____

18. Why is it a good practice to always clean our hands with water and soap after visiting a latrine / toilet?

_____

19. Define the term frequency as used in sound.

_____

20. Why are worker bees unable to lay eggs yet they are females?

_____

21. State one reason why we are encouraged to use electric energy other than wood energy?

_____

_____

22. Name the longest bone in the human skeleton.

_____

23. Give a reason why a health worker shakes a clinical thermometer before using it on a patient.

_____

24. Why do spiders make webs?

_____

25. Give one example of an egg laying mammal.

_____

26. How is the reproduction of a fern different from that of yeast?

_____

_____

27. How does a fuse work in a simple circuit?

_____

Use the diagram of plant roots below to answer the question that follows.

28. State the function of organisms found in part marked K.

_____

_____

29. What causes piglet anaemia in young piglets?

_____

30. Why are expecting mothers not advised to smoke tobacco?

_____

31. How is hydrochloric acid found in your stomach useful in the digestion process? _____

32. In which way is rusting similar to burning?

_____

33. What is the importance of a stretcher to First Aiders?

_____

34. Convert 50^0C to ^{0}F

The diagram below shows a component of blood.

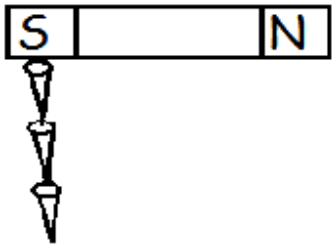
35. How is the above component useful in our bodies?

_____

36. Why do chameleons change colour according to that of the environment?

_____

37. Identify the method of making magnet shown below.



_____

_____

38. Give a reason why amoeba is grouped under unicellular organisms.

_____

39. Why is measles referred to as a communicable disease?

_____

40. Name the structures that help carnivorous animals to ran after their prey without making noise.

_____

SECTION B 60 MARKS

Questions 41 to 55 carry 4 marks each.

41. (a) What is immunity?

_____

_____

(b) Identify the two vaccines administered at birth.

i) _____

ii) _____

(c) Why is measles vaccine administered at the age of 9 months?

_____

_____

42. **The table below shows different groups of animals, use it to answer questions that follow**.

A	**B**	**C**	**D**
Frog	Snail	Rat	Snake

(a) In which way are animals A, C and D similar?

_____

_____

(b) How is the reproduction of the animal in D different from that in C?

_____

_____

(c) To which class of animals does animal B belong?

_____

(d) How does animal A protect itself against enemies?

_____

43. (a) Write P.H.C in full.

_____

(b) State any two roles of the mother in P.H.C

i) _____

ii) _____

(c) Give one example of vulnerable group of people.

_____

44. (a) A stone has a mass of 35gm and volume of $7cm^3$. Find the density of the stone.

(b) Joshua poured oil in a container which had some water. Which liquid was seen at the bottom?

_____

(c) Give a reason for your answer in (b) above.

_____

45. Match the items in list A with the diseases in list B

List A	**List B**
Vitamin A	scurvy
Carbohydrates	kwashiorkor
Proteins	Night blindness
Vitamin C	marasmus

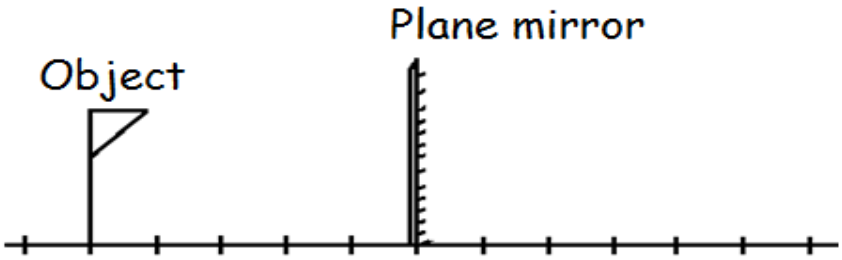
i) Vitamin A: _____

ii) Carbohydrates: _____

iii) Proteins: _____

iv) Vitamin C: _____

46. **The diagram below shows an object placed in front of a plane mirror. Use it to answer question that follows**.



(a) Draw the image reflected by the plane mirror on the diagram above.

(b) Write down any two characteristics of images formed in plane mirror.

i) _____

ii) _____

(c) State any one difference between images formed in a pin hole camera and a plane mirror.

_____

_____

47. (a) What is poultry? _____

_____

(b) Give any one example of poultry.

_____

(c) Write down two vices common on poultry farms.

i) _____

ii) _____

48. (a) Define the term digestion.

_____

_____

(b) Name the digestive juice produced in the mouth.

_____

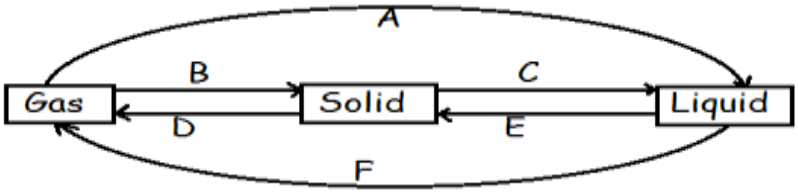
(c) Where in the digestive system does the absorption of food take place?

_____

(d) Write down one digestive disorder.

_____

49. **The diagram below shows changes of states of matter. Use it to answer the questions that follow**.



(a) Name the process marked B.

_____

(b) How is the process marked A important to a farmer in nature?

_____

_____

(c) What type of change does the diagram above represent?

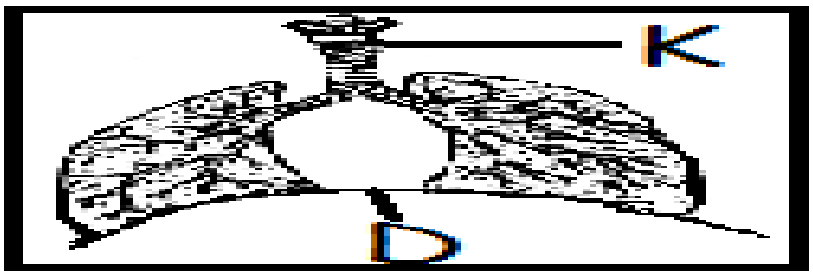
_____

_____

(d) Name the substance in nature that exists in all the three states of matter.

_____

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



(a) Name the parts labeled;

i) **K**: _____

ii) **D**: _____

(b) Why is part **K** made of rings of cartilage?

_____

_____

(c) Name one non communicable disease which affects the above organ.

_____

51. Bacteria are regarded as being both harmful and useful to man.

Write down two reasons why bacteria are said to be

a) harmful: i)_____

ii)_____

b) useful: i)_____

ii)_____

52. (a) What is passive smoking?

_____

_____

(b) Give any two effects of smoking to an individual.

i) _____

ii) _____

(c) State any one practice in a community that can help to control smoking.

_____

53. (a) Name any one common accident at school.

_____

(b) State any two reasons why First aid is administered to causalities.

i) _____

ii) _____

(c) State any one safety rule observed by road users.

_____

54. (a) What is friction?

_____

_____

(b) State any one reason why friction is regarded as:

i) a nuisance force: _____

_____

ii) a useful force: _____

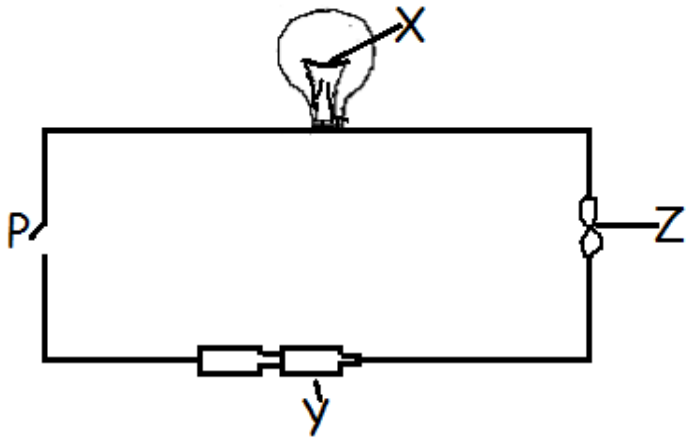
_____

(c) How have the aeroplane manufacturers tried to overcome friction?

_____

_____

55. **Use the diagram below to answer questions that follow**.



(a) Use an arrow to show the flow of current in the circuit above.

(b) Why is part **X** of the bulb coiled?

_____

_____

(c) What energy change occurs at point **Y** when **P** is closed?

_____

_____

(d) How is part **Z** adapted to its function?

_____

_____

END