

MOCK EXAMINATIONS

2022



INTEGRATED SCIENCE (SPECIAL SET 2)

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)

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.

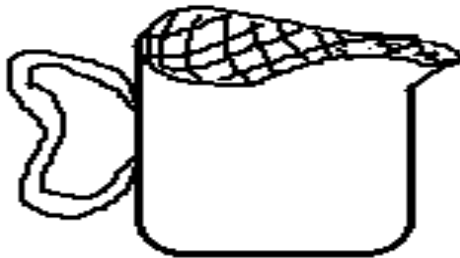
12. In the space below, draw a diagram of a lens used to correct myopia.

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°C to $^{\circ}\text{F}$

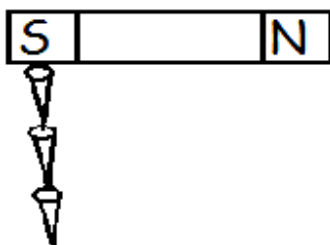
The diagram below shows a component of blood.



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 run 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

Vitamin A

Carbohydrates

Proteins

Vitamin C

List B

scurvy

kwashiorkor

Night blindness

marasmus

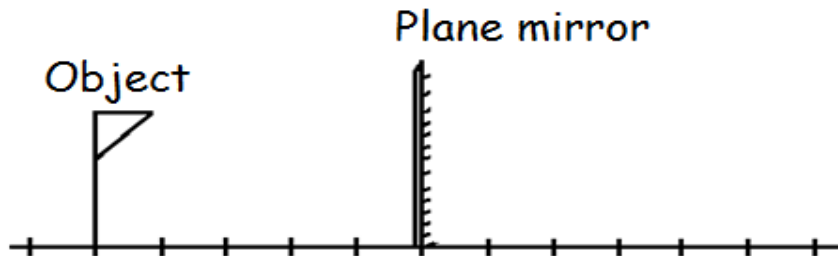
i) Vitamin A: _____

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) _____

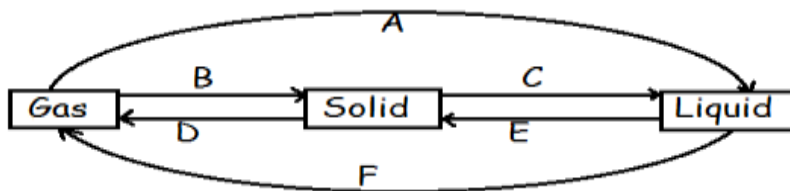
48. (a) Define the term digestion.

(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.

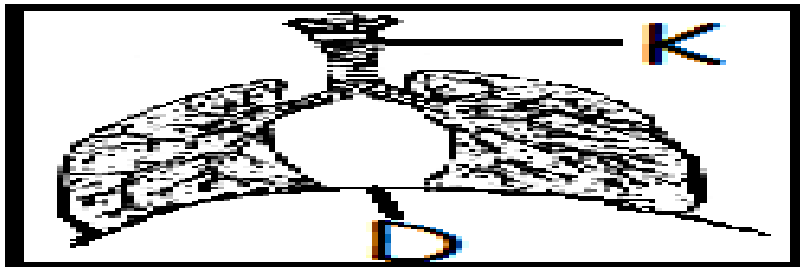
(b) How is the process marked A important to a farmer in nature?

(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 casualties.

i) _____

ii) _____

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

54. (a) What is friction?

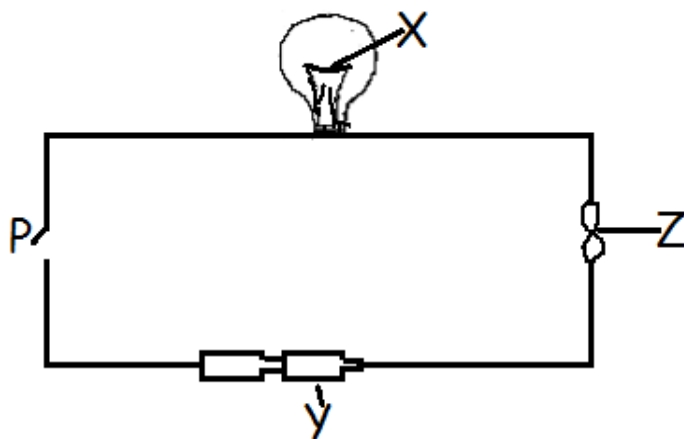
(b) State any one reason why friction is regarded as:

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

